

Catalog 2022-2025





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HV/LV switchboard + 5

SLAT secures critical equipments and technical networks for buildings and cities.





RECEIVE TRUST DURABILITY &

GET YOURSELF A SUPPLIER THAT YOU CAN TRULY RELY ON.



- \sim SLAT has been developing its **expertise** since 1953.
- \sim 60% of our customers trust us for **over 10 years**.
- \sim SLAT provides a **reliable supply source** ensured by a Business Continuity Plan.
- \sim Our growth is **constant** to support yours.
- \sim Innovation is part of our DNA. We create solutions intended to grow your added value.



 \sim SLAT, a **NETZERO** company, takes **protection of the planet** seriously.

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\sim SLAT products are designed, assembled and inspected in **France**.

- \sim Quality and Environmental control is certified ISO 9001: 2015 and ISO 14001: 2015.
- \sim Lean manufacturing ensures <code>flexibility</code> and <code>short</code> <code>lead</code> <code>times</code>.

YOU USE RELIABLE AND ECO-DESIGNED PRODUCTS.

- \sim You deserve the latest technologies adapted to your needs.
- \sim Obtain a **3 year warranty** on almost all our product ranges.
- \sim Reduce your electrical power consumption.

YOU ARE BUYING QUALITY WITH

CONTROLLED PRODUCTION LINE!

- \sim Benefit from NF and VdS-certified products, based on the latest standards. $\,$ MF $\,$ We
- \sim Make your **installation easier** thanks to the small size of our products.

WITH SLAT, YOU ARE NUMBER 1.

OBTAIN SERVICE & CUSTOMER AWARENESS





WE WILL SUPPORT YOU IN YOUR CHOICES AND PROVIDE YOU WITH A PERSONALIZED RESPONSE.

- \sim Our expert advisers will deal with your requests within 24h.
- ~ Save time! You can find all our information on www.slat.com (Commercial brochures, datasheets, configuration software, certificates of compliance, Declarations of Performance, etc...).

EACH OF OUR CUSTOMERS DESERVES THE VERY BEST.



- \sim 600 references available within 5 working days.
- \sim Your delivery instructions are observed.
- \sim Follow your delivery status, download your documentation and more on MySLAT.

AT YOUR SIDE FOR THE LONG RUN!

- \sim We support you over time for each contract; we are familiar with **your history**.
- \sim Are you facing installation or operating difficulties? Call the Hotline, or send us an email and receive an **answer before the end of the day**!
- \sim Should you have an **emergency**? We will help you deal with it.





Selection auide						
	J - - - - - - - - - -	AES	SONAES	AX52	AXSB	
	Fire safety	Х	Х			
	Access control and Video			Х	Х	
Your field	Communication					
of expertise	Videoprotection / Urban networks					
	Emergency systems and Medical appliances					
	Building management					
	12 V			Х	Х	
	24 V	Х	X	Х	Х	
Voltage	48 V	Х	X			
	PoE+					
	EN 54-4/A2	Х	X			
	EN 12 101-10	Х				
	EN 50 131-6			Х	Х	
Standard	EN 61 046					
	NF C13 100					
	IEEE 802.3af/at					
	LED	4	3	1	3	
	Dry contact	3	3	1	3	
•	Alphanumerical display					
Communication	RS 485	x (2)			x (2)	
	IP webserver					
	Switch function					
	DIN rail / panel mount			Х		
	19" Cabinet	Х	X			
Installation	Wall mounting	Х		Х	Х	
	Floor standing	Х		Х	Х	
	Pole mounting					
Battery	Lithium					
technology	Lead	Х	×	Х	Х	
Pages		12-17	18-21	24-28	29-33	

(1) with accessories (2) in option (3) sold without battery

Battery capacity according to cabinet

Enclosure	Dimensions W x H x D (mm)	Mounting	12 V	24 V	48 V	56 V
C7	243 x 195 x 96	Wall-mounted & DIN rail	7 Ah	1.2 Ah	2.1 Ah	-
C24	322 x 248 x 126	Wall-mounted	7 Ah 12 Ah 24 Ah (2 x 12 Ah)	7 Ah 12 Ah	2.1 Ah	-
C34	367 x 352 x 108	Wall-mounted	7 Ah 17 Ah	7 Ah 17 Ah	-	-
C38	289 x 350 x 189	Wall-mounted & floor-mounted	17 Ah 24 Ah 38 Ah	17 Ah 24 Ah	7 Ah 12 Ah	-

						Ð	
EVOLUTION	EPVIDEO	SYNAPS	SDC-M	SDC-PoE	SANTE	FITIN	ENERCO
				х		х	
Х				х			
	х	Х	х				
				X	Х	Х	х
			х	X			
х	×	X	х			х	
Х	Х	х	Х		Х	Х	Х
Х			х			Х	х
	×(1)	х		Х			
					Х		
							Х
	×(1)	х		Х			
4		1 to 16	1 to 3	1 to 68	3		2
3		1	1	1	1	1	3
Х	webserver	webserver	webserver	webserver			Х
			Х				
Х	Х	х	Х	Х			
	5 ports (1)	2 to 10 ports		1 to 24 ports			
			Х	Х		Х	
Х				х			
Х	Х	х	Х	х	Х		
Х			Х	Х	Х		Х
	Х	х					
	Х	Х	Х	Х			Х
Х					Х	x (3)	Х
36-41	50-54	55-68	72-80	81-98	102-105	106-109	112-115

Enclosure	Dimensions W x H x D (mm)	Mounting	12 V	24 V	48 V	56 V
C48	425 x 345 x 120	Wall-mounted	24 Ah (2 x 12 Ah) 36 Ah (3 x 12 Ah) 48 Ah (4 x 12 Ah)	7 Ah 12 Ah 24 Ah (4 x 12 Ah)	7 Ah 12 Ah	7 Ah 12 Ah
C85	408 x 408 x 224	Wall-mounted & floor-mounted	48 Ah (2 x 24 Ah) 65 Ah 96 Ah (4 x 24 Ah)	24 Ah 38 Ah 48 Ah (4 x 24 Ah)	12 Ah 17 Ah 24 Ah	-
C180	505 x 610 x 430	Floor-mounted	120 Ah 130 Ah 140 Ah	65 Ah 95 Ah 120 Ah 130 Ah 170 Ah	38 Ah 65 Ah 95 Ah	-

FIRE SAFETY / EVACUATION

SLAT CONTRIBUTES TO THE RELIABILITY OF YOUR FIRE PROTECTION EQUIPMENT



Around 300,000 fires occur each year in the country, 5% of them concern public-access buildings or business premises. In 3 out of 4 cases, affected businesses disappear. These disasters, all locations combined, claim about 30,000 victims per year.

With increasingly sophisticated fire detection systems and the expertise of the emergency services, these numbers are dropping.

However, conscientious professionals and stakeholders need to be increasingly vigilant in order to provide optimal protection for the people they are responsible for.

In order to make detection and safety equipment more reliable, SLAT works with the biggest manufacturers in the sector and thus offers plant managers and emergency services the guarantee of flawless operation of their fire safety control panel.



SELECTION GUIDE

		ES	sor	IRES	
	EN	54-4	EN 54-4		
Standard	EN 12	101-10			
	NF	SSI			
Application	Fire se	ecurity	PA/VA S	Systems	
Voltage	24 V	48 V	24 V	48 V	
	2 A	2 A	6 A	12 A	
Current	3 A	3 A	12 A		
	4 A	4 A			
	6 A	6 A			
	8 A	8 A			
	12 A	12 A			
	16 A				
	24 A				
Format	Вох о	r Rack	Ra	ack	
	7 Ah	2,1 Ah			
	12 Ah	12 Ah	-		
Battery capacity	17 Ah	17 Ah	Compatible with batte	rice from EE to 22E Ab	
	24 Ah	24 Ah			
	40 Ah	40 Ah			
	65 Ah	65 Ah			
Page	12-17		18	-21	



SLAT - 11, rue Jean Elysée Dupuy - BP 66 - 69543 Champagne au Mont d'Or Cedex FRANCE - Tel. : +33 478 66 63 60 • E-mail : comm@slat.fr - www.slat.com



Emergency power supplies with batteries - Fire Safety

24 V DC • 48 V DC



Certified as per standard: EN 54-4/A2 "Fire detection and alarm systems" Certified as per standard: EN 12 101-10 "Smoke and heat control systems" VdS Approval

Certificates can be downloaded from www.slat.com



Communication by LED on the front panel • Dry Contact*

/ The AES emergency power supplies provide permanent and backup power for Fire Safety installations. *This range exists also with RS485 serial link













Main functions

- \sim Monitors battery presence and impedance (aging).
- \sim The installation resumes as soon as the mains returns.
- \sim Protects the battery from temperature variations.

Benefits of the AES range

- \sim A wide range of products in terms of power and enclosures.
- \sim Batteries connections supplied with protected lugs.
- \sim Built-in lightning protection.
- \sim Alarm reports on dry contacts.
- \sim 6 fused outputs as a standard (C38, C85).
- \sim Space and DIN rail provided for transmission units (C38, C85).

AB = With Battery SB = Without Battery

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
AES 24V			
AES 24V 4A F3U G	3,0 kg	483 x 132 x 110	2140430000
AES 24V 6A F3U G	3,0 kg	483 x 132 x 110	2140630000
AES 24V 8A RACK G	3,0 kg	483 x 132 x 235	2140830000
AES 24V 12A RACK G	3,0 kg	483 x 132 x 235	2141230000
AESI 24V 2A C24 SB G	2,0 kg	322 x 248 x 126	2340224000
AESI 24V 2A C24 AB 7 AH G	8,0 kg	322 x 248 x 126	2340224007
AESI 24V 2A C24 AB 12 AH G	10,0 kg	323 x 248 x 126	2340224012
AESI 24V 3A C38 SB G	5,0 kg	289 x 350 x 189	2340338000
AESI 24V 3A C38 AB 12 AH G	15,0 kg	289 x 350 x 189	2340338012
AESI 24V 3A C38 AB 24 AH G	25,0 kg	289 x 350 x 189	2340338024
AESI 24V 3A C85 SB G	8,0 kg	408 x 408 x 224	2340385000
AESI 24V 3A C85 AB 38AH G	28,0 kg	408 x 408 x 224	2340385040
AES 24V 6A C38 SB G	5,0 kg	289 x 350 x 189	2140638000
AES 24V 6A C38 AB 24 AH G	25,0 kg	289 x 350 x 189	2140638024
AES 24V 6A C85 SB G	9,0 kg	408 x 408 x 224	2140685000
AES 24V 6A C85 AB 38AH G	39,0 kg	408 x 408 x 224	2140685040
AES 24V 8A C85 SB G	10,0 kg	408 x 408 x 224	2140885000
AES 24V 8A C85 AB 38AH G	40,0 kg	408 x 408 x 224	2140885040
AES 24V 12A C85 SB G	10,0 kg	408 x 408 x 224	2141285000
AES 24V 12A C85 AB 38AH G	40,0 kg	408 x 408 x 224	2141285040
AES 24V 16A C180 SB	20,0 kg	505 x 610 x 430	2041618000
AES 24V 16A C180 AB 65AH	68,0 kg	505 x 610 x 430	2041618065
AES 24V 24A C180 SB	20,0 kg	505 x 610 x 430	2042418000
AES 24V 24A C180 AB 65AH	68,0 kg	505 x 610 x 430	2042418065
RES 48V			
AES 48V 3A F3U	3,0 kg	483 x 132 x 110	2080330000
AES 48V 6A RACK	3,0 kg	483 x 132 x 235	2080630000
AES 48V 8A RACK	3,0 kg	483 x 132 x 235	2080830000
AES 48V 12A RACK	3,0 kg	483 x 132 x 235	2081230000
AES 48V 2A C24 SB	2,0 kg	322 x 248 x 126	2080224000
AES 48V 2A C24 AB 2,1 AH	6,0 kg	322 x 248 x 126	2080224002
AES 48V 2A C38 SB	5,0 kg	289 x 350 x 189	2080238000
AES 48V 2A C38 AB 12 AH	21,0 kg	289 x 350 x 189	2080238012
AES 48V 3A C38 SB	5,0 kg	289 x 350 x 189	2080338000
AES 48V 3A C38 AB 12AH	21,0 kg	289 x 350 x 189	2080338012
AES 48V 4A C85 SB	10,0 kg	408 x 408 x 224	2080485000
AES 48V 4A C85 AB 17AH	50,0 kg	408 x 408 x 224	2080485017
AES 48V 4A C85 AB 24AH	62,0 kg	408 x 408 x 224	2080485024
AES 48V 6A C85 SB	10,0 kg	408 x 408 x 224	2080685000
AES 48V 6A C85 AB 24AH	50,0 kg	408 x 408 x 224	2080685024
AES 48V 8A C180 SB	20,0 kg	505 x 610 x 430	2080818000
AES 48V 8A C180 AB 40AH	80,0 kg	505 x 610 x 430	2080818040
AES 48V 8A C180 AB 65AH	116,0 kg	505 x 610 x 430	2080818065
AES 48V 12A C180 SB	20,0 kg	505 x 610 x 430	2081218000
AES 48V 12A C180 AB 40AH	80,0 kg	505 x 610 x 430	2081218040
AES 48V 12A C180 AB 65AH	116,0 kg	505 x 610 x 430	2081218065

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> Ratings								
	50 W	75 W	100 W	150 W	200 W	300 W	400 W	600 W
24 V DC	2 A	3 A	4 A	6 A	8 A	12 A	16 A	24 A
48 V DC	-	-	2 A	3 A	4 A	6 A	8 A	12 A
The currents values refer to the nomina	l current (I _n) a	at rated outp	ut power.					
> Standard-based specifications								
Safety	EN 62368-1							
EMC - Interference Immunity	EN 50130-4	• EN 61000-	6-1 • EN 61	.000-6-2				
EMC - Emission	EN 61000-3	-2 • EN 6100	0-6-3 • EN	61000-6-4 • EN	N 55032 B cla	SS		
Industry-specific	NFS 61940	• EN 54-4 / A	2 • EN 121	01-10				
Environmental	This product	This product range meets the environmental requirements according to ISO 14001, RoHS and WEEE.						
Certification VdS	VdS 2344 - 2 VdS 2203 - 2	√dS 2344 - 2541 (all) √dS 2203 - 2593 - 2824 - 2882 (50-75 W)						
> Environmental specifications								
Hygrometry	During storage: relative humidity 10% to 95% (non-condensing) During operation: relative humidity 20% to 95% (non-condensing)							
Storage temperature				-25 to	+85°C			
Operating temperature		Power		50 W	- 75 W 100 W - 600 W			W
	at 75% of load -10°C t			to +60°C -5°C to +50°C)°C	
	at 100% of load -10°C to +55°C -5°C to +40°C)°C			
Maximum operating height		Above 2,0	00 m, the n	naximum temp	erature decr	eases 5% eve	ery 1,000 m	
Service life 50-75 W	200),000 hours a	t 25°C (ext	environment)	and 75% of I	oad at nomir	nal mains volt	age
Service life 100-600 W	50	,000 hours at	: 25°C (ext.	environment)	and 75% of lo	oad at nomin	al mains volta	age
> Input characteristics								
		50 W	- 75 W			100 W	- 600 W	
Voltage		115 V - 240 V	single-pha	se		230 V +/- 15%	% single-phas	е
Frequency				45 to	65 Hz			
Mains Type				TT - 1	N - IT			
Inrush current	Bipol	ar Curve C be	etween 2 a	nd 10 A		limited	by NTC	
Upstream circuit breaker to be provided	D curve							
Class				Cla	iss I			
	50 W	75 W	100 W	150 W	200 W	300 W	400 W	600 W
Primary current @ 195V	0.52 A	0.78 A	0.75 A	1 A	1.5 A	2 A	3 A	4 A
Efficiency	50 W	- 75 W	100 V	V - 150 W	200 W	- 300 W	400 W	- 600 W
ŋ @ 20% load	81.3% 75%			84	4%	85	5%	
ŋ @ nominal load	90.1% 84% 90% 91%					L%		
> Output characteristics								
Nominal voltage		24 \	/ DC			48 \	V DC	
Float voltage (U,) adjusted to half load and 25°C		27.2 V	+/-0.5%			54.4 V	+/-0.5%	
Current limitation charger								

AES DATASHEET

> Reliability of the output v	voltage					
Protection against external interferences	 Resistance again Overvoltage oc conductor imperimentation Short circuit at Differential mo Battery polarity Overvoltages o Overcurrents a The short-circui High ambient t 	 Resistance against all types of external interferences: Overvoltage occurring in the power supply (lightning, industrial overvoltage, insulation faults on neutral conductor impedance earthing) Short circuit at the primary circuit due to a delayed fuse on the phase conductor Differential mode shock waves by varisor and fuse. Battery polarity reversal. Overvoltages on the secondary circuit. Overcurrents and short-circuits on the secondary circuit. The short-circuits inside the product, protected by primary fuse. High ambient temperatures (outside the specified range). 				
Management of charger current limitation	 Output current li Fully protects t Protection sele 	 Output current limitation allows a charge cycle to be started with a empty battery. Fully protects the product from short-circuits on the installation. Protection selectivity is ensured by fuses on each load output and the battery fuse. 				
High performance filtering and regulation	 Particulary efficient output voltage regulation Static regulation < 0.5% of U_n. Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (from 10% to 90%). Enhanced filtering that eliminates all interference and reduces the ripple on the V DC output. Battery capacity preserved and the guarantee of optimum system operation. LF rms ripple < 0.2% of U_n. HF ripple (20 MHz-50 Ω) < 4 % of U_n. 					
> For the control and management of the emergency power source						
System control	 Monitoring of: The status of Mains, battery and load fuses. Battery presence or absence and its impedance. Temperature inside the cabinet (200 W to 600 W). Battery voltage and its operating status. Mains voltage inside correct operating range. 					
 - This function is essential for reaching the design life and to ensure optimum operation of the battery. - This function is essential for reaching the design life and to ensure optimum operation of the battery. • The charge voltages are factory set for «sealed» recombination-type lead acid batteries. • They are consistent with the battery manufacturer's recommendations. • The charger features battery charge current limitation. • The supply of power to the load takes priority over the battery charge. 						
 Automatic disconnection of the load at end of discharge to preserve its future capacity. Prevents deep discharge that can permanently downgrade performance, Cut-off threshold 1.8 V/cell (+/-0.5%). An alarm is sent before disconnection (Pre-cut alarm threshold 1.85 V/cell (+/-0.5%). The charger integrates a limitation of the battery charging current. This allows your application to take full advantage of the battery's capacity. 						
> Table of charger internal consumption during autonomy						
		24 V DC	48 V DC			
50 W - 75 V	N	39 mA	-			
100 W - 150	W	75 mA	85 mA			
200 W - 300	W	44 mA	37 mA			
400 W - 600 W 106 mA 73 mA						

> For optimal communication



50 W - 75 W



100 W - 600 W

Display and remote reporting of the information

- Mains fault (normal source): signaled locally by an orange LED.

- If the mains is not present or < 195 V.
- If the mains fuse is blown or not present, or if product is out of order.
- Remote reporting by dry contact with delay (failsafe).

- Battery fault (safety supply): signaled by an orange LED.

- Remote reporting by dry contact with delay (failsafe).
- If battery is not present: The battery is tested in the following manner:
- Every 30 seconds for the first 20 minutes after commissioning:
- Every 15 minutes after the first 20 minutes, if a fault is detected, the test is conducted every 30 seconds, and continues up to 20 minutes after the fault disappears.
- If the internal impedance is too high (test every 4 hours maximum on a charged battery): signaled by a green LED
- The impedance limit values are:

	24 V DC	48 V DC
50 W - 75 W	650 mΩ +/-15%	-
100 W - 150 W	410 mΩ +/-10%	1.65 Ω +/-10%
200 W - 300 W	164 mΩ +/-10%	656 mΩ +/-10%
400 W - 600 W	82 mΩ +/-10%	328 mΩ +/-10%

- If battery voltage < 1.8 V/ cell +/-3%.

- Output 1 voltage presence (replacement normal source):

Voltage presence on this output is indicated by a green LED.

- Output 2 voltage presence (replacement normal source):

- Voltage presence on this output is indicated by a green LED.
- Remote reporting by dry contact with delay (failsafe) of the absence of one of the 2 load outputs.

- AES operates when the 2 green LEDs, corresponding to the load outputs, are illuminated. If voltage is not present, the LEDs are off.

- Temperature compensation:

A battery voltage compensation system maintains the charge characteristics within the limits specified by the battery manufacturer across the entire operational temperature range.

- Battery current limitation (50 W-75 W):

2 microswitches (position 25%, 50%, 75% of rated current) are used to select the battery charging current according to the battery capacity. Battery manufacturers recommand to maintain charging current within 0.1 to 0.3 C. The product is delivered with the jumper in the '75' position. - Battery current limitation (100 W-600 W):

A configuration jumper on the daughterboard (position 25%, 50%, 75% of the rated current) allows to adapt the battery charging current to its capacity.

The product is delivered with the jumper in the '75' position.

-Battery low voltage outage:

The outage threshold is 1.8 V/ cell +/- 3%.

The element causing the outage will be in the + position.



AES DATASHEET

> Connections specifications							
Screw terminal	50 W - 75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W			
Mains	2.5 mm ² *	2.5 mm ²	2.5 mm ²	2.5 mm ²			
Batteries	2.5 mm ² *	6 mm²	6 mm²	10 mm²			
Load (2, 6 or 10 outputs)	2.5 mm ² *	6 mm²	6 mm²	10 mm²			
Alarm reports	1.5 mm ² *	1.5 mm ² *	1.5 mm²*	1.5 mm ² *			

*Unpluggable connectors.

> Cabinet and rack characteristics

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L 9003
AL 7035
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*The following is installed in the C38 and C85 housings (24 V versions):

- a card with 5 fuse outputs (6 instead of 2 outputs are available)

- a DIN rail for integration of the user's equipment.

The following can be installed additionally in the C38 and C85 housings (24 V versions):

- an additional card with 5 fuse outputs (10 instead of 6 outputs are available).

> Battery capacity according t	o cabinet
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, , , ,			
Cabinet	Туре	24 V DC	48 V DC
C24	Wall-mounted	7 Ah, 12 Ah	2.1 Ah
C38	Wall-mounted & Floor-mounted	17 Ah, 24 Ah	7 Ah, 12 Ah
C85	Wall-mounted & Floor-mounted	24 Ah, 38 Ah	12 Ah, 17 Ah, 24 Ah
C180	Floor-mounted	65 Ah, 80 Ah, 120 Ah, 130 Ah, 170 Ah	38 Ah, 65 Ah, 80 Ah

SLAT can change specifications on his products without prior notice.



24 V DC • 48 V DC

Main functions

discharge.



Certified as per standard EN 54-4/A2

"Detection and fire alarm systems" Certificates can be downloaded from www.slat.com

Communication by LED on the front panel • Dry contact

SONaes battery chargers associated with a battery can be used to back up public address safety systems for evacuation of buildings.



 \sim Alarm currents can be configured from 40 A to 150 A.

 \sim Alarm reports via dry contacts and locally.

 \sim Checks the presence and the impedance of the battery.

 \sim Protects the battery from temperature variations and deep



Rack 2U - back view 483 x 89 x 399 mm

Benefits of the SONaes range

- \sim Up to 6 amplifier outputs 40 A and 3 independent fused auxiliary outputs.
- \sim All connectors are pluggable.
- \sim Fully protected product, with rear connectors.
- \sim Integrated lightning protection.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SONAES 24V			
SON 24V 6A MS 40 RACK	3,1 kg	483 x 89 x 355	4540633000
SON 24V 12A MS 150 RACK	5,4 kg	483 x 89 x 399	4541233000
FRONT TERMINAL BATTERY 24V			
BAT FRONT 24V 100Ah +CABLOT	75 Kg	1 tray	6540000100
BAT FRONT 24V 150Ah +CABLOT	110 Kg	1 tray	6540000150
SONAES 48V			
SON 48V 12A MS 150 RACK	6,0 kg	483 x 89 x 399	4581233000
FRONT TERMINAL BATTERY 48 V			
BAT FRONT 48V 100Ah +CABLOT	142,4 kg	1 tray	6580000100
BAT FRONT 48V 150Ah +CABLOT	208,0 kg	1 tray	6580000150

SONaes DATASHEET



	SON 24V 6A MS40 RACK	SON 24V 12A MS150 RACK	SON 48V 12A MS150 RACK			
> Mains						
Mains voltage	230 V AC +/-15% (195 to 264 V)					
Frequency		47 to 63 Hz				
Power at full load	190 W	380 W	760 W			
Efficiency at full load	84%	87%	91%			
Efficiency at 20% of load	74%	82%	86%			
Neutral and earthing systems		TT, TN, IT				
Class		Class I				
> Output	1					
Floating voltage (U _n) set at half load and 25°C	27.2 V D	C +/-0.5%	54.4 V DC +/-0.5%			
Nominal output rectifier current	6 A	12	A			
Current limitation - short circuit current	U 27.3V 13.6V BA 8.3A 1	U 37.3V 13.6V 12A 13.6A 1	U 544V 272V 12A 13.6A 1			
Peak to peak HF residual voltage (20 MHz-50 Ω)		< 4% of floating voltage				
RMS LF residual voltage		< 0.2% of floating voltage				
Static and dynamic regulation characteristics	< 5% of floating for mains voltage and output load (from 10 to 90%)					
> Battery						
Cut-off threshold	21.6	V +/- 3%	43.2 V +/- 3%			
Internal impedance threshold of the battery fault	50 mΩ +/-10%	- 24 mΩ +/-10% if jumper in '50 position - 16 mΩ +/-10% if jumper in '75 position	 48 mΩ +/-10% if jumper in			
Maximum current for all outputs drawn from the battery	40 A	*- 100 A if jumper in '50' position - 150 A if jumper in '75' position				
Minimum battery capacity	24 Ah	*65 Ah if jumper i 86 Ah if jumper is	*65 Ah if jumper is on '50' position 86 Ah if jumper is on '75' position			
Maximum battery capacity	110 Ah	225	Ah			
Battery voltage compensation	A system for the compensation of within the battery manufacturer's If the sensor is broken or disconned	f the battery output voltage maintai s specifications over the entire oper cted or has short circuit, the battery vo	ns the charging characteristics ating temperature range. oltage is no longer compensated.			
Internal rectifier consumption	140 mA	430 mA	290 mA			
> Connections						
Mains	2.	5 mm ² plug-in (IEC320) and lockable	2			
Main outputs		16 mm² plug-in				
Auxiliary outputs		2.5 mm ² plug-in				
Battery output	16 mm² plug-in	50 mm²	plug-in			
Alarm outputs		1.5 mm ² plug-in				
Temperature sensor	1.5 mm² plug-in					

* 2 current configurations are available depending on jumper position.

SONaes DATASHEET

	SON 24V 6A MS40 RACK	SON 24V 12A MS150 RACK	SON 48V 12A MS150 RACK			
> Protections						
Against unintentional battery reverse	 At start-up: the battery is not connected During operation: the fuse F8 (5 x 20, rated:6.3 A, type T) on the power and control board blown At start-up: the battery is not connected During operation: the fuse F8 (5 x 20, rated:12.5A, type T) on the power and control board blown 					
Against battery wiring error	 If battery voltage > 30 V +/-3%, the battery is not connected If battery voltage < 14 V +/-3%, the battery is not connected If battery voltage < 14 V +/-3%, the battery is not connected If battery voltage 40 V +/-3%, the battery is not connected 					
Against output over-voltage	 Regulation problem: by switchin restarting cyclically. The threshot External: by transient voltage summers 	 Regulation problem: by switching off the power supply and restarting cyclically. The threshold is 28.8 V +/-3% External: by transient voltage suppressor Regulation problem: by switching off the power supply and restarting cyclical The threshold is 57.6 V +/-3% External: by transient voltage suppressor 				
> Fonctionnal characteristics						
Alarms and signalisations	mains fault output voltage fault	Led indication: een = Ok / Orange=Mains fault acti	battery fault			
Mains	 Fault if: mains voltage threshold <185 V +/-5% as long as the charger has not started, <165 V +/-5% when the charger has started no primary fuse or fuse has blown power supply is broken internel topprogrammers the high 					
Battery	Fault if: - no battery - high impedance on battery and - battery voltage < 23.5 V +/-3% r	Fault if: - no battery - high impedance on battery and its associated circuit - battery voltage < 47 V +/-3% mains present				
buttery	 Battery fault monitoring Detection of the presence/absence of the battery: 1 test every 30 seconds during the first 20 min and every 15 min after (in normal operation). As soon as a fault detection, the test is repeated every 30 seconds until no fault. Measurement of the impedance of the battery and its associated circuit: 1 test every 4 hours the mains is present on the power supply and if the power supply has a current < rectifier current. 					
Output	Fault: when one of the auxiliary of	or main outputs fails				
Alarm reports	Each alarm can be transmitted by 1 A @ 24 V DC, 0.5 A @ 120 V AC	dry contacts free of potential (C-No	D-NC) allowing			
> Mechanical characteristics						
Dimensions	Rack 19" (MS40): W 483 mm x H 88 Rack 19" (MS150): W 483 mm x H 8	8 mm (2U) x D 355 mm (with connecto 88 mm (2HE) x D 398 mm (with connecto	rs) / 344 mm (without connectors) rs) / 344 mm (without connectors)			
Weight	3.1 kg	5.4 kg	5.9 kg			
IP (front side)		IP 30				

SLAT can change specifications on his products without prior notice.

ACCESS CONTROL AND VIDEO

WITH SLAT POWER SUPPLIES, YOUR ACCESS CONTROL REMAINS OPERATIONAL



The protection of property and people remains a concern for all building managers. Indeed, there are nearly 250,000 burglaries a year in the country for example or one burglary every 90 seconds. More than a million complaints concerned acts of degradation and vandalism of buildings.

Facing these threats, access control and intrusion protection equipment requires highperformance power supplies that meet EN50131-6 standards. Many systems include today CCTV requiring PoE power supply.

SLAT brings you the most reliable solutions on time. It also offers service continuity solutions for systems running on IP.

SELECTION GUIDE

	AX	52	RX	53		FITIN		SDC-PoE	SDC-PoE4
Standard	EN 50131	-6 grade 2	EN 50131	-6 grade 3		-		-	-
DC output voltage	12 V	24 V	12 V	24 V	12 V	24 V	48 V	55 V	55 V
Current / Power	2 A / 5 A / 10 A	1 A / 2,5 A / 5 A	4 A / 6 A	2 A / 3 A	6 A / 12 A / 24 A / 32 A	3 A / 6 A / 12 A / 24 A	3 A / 6 A / 12 A	55 W	55 W
Number of terminal outputs	1/3'	* / 5*	2 / 4'	* / 6*		2		1	-
PoE/PoE+ ports		-	-		-		1	4	
Ethernet ports		-	-		-		1	1	
Format	DIN / ca	rd / box	В	Box		Card		DIN	Box
Battery technology	Le	ad	Le	ad		Lead		Lithium	Lithium
	7 Ah	1,2 Ah	7 Ah	7 Ah				D	D
	12 Ah	7 Ah	12 Ah	12 Ah	Compatible	Compatible	Compatible	G	E
Battery capacity	17 Ah	12 Ah	24 Ah	24 Ah	with batteries up	with p batteries up	with with atteries up batteries up		
	24 Ah	17 Ah	40 Ah		to 240 Ah to 180 Ah	to 180 An	to 90 An		
	40 Ah	24 Ah							
Page	24-	-28	29	-33		106-109		81-84	85-88

* with option





Uninterruptible Power Supplies with battery - Intrusion / Access Control

12 V DC • 24 V DC

Complies with Standard: EN 50131 - 6 grade 2

"Alarm Systems, Intrusion and hold-up systems"

Communication by LED on the front panel • Dry Contact

The AXS2 Uninterruptible Power Supplies with battery provide permanent and backup power for Intrusion and Access Control installations.









Main functions

- \sim Resists short-circuits on load outlets
- \sim Controls and reports operating status
- \sim Resumes as soon as the mains returns
- \sim Opening and tamper contacts (on models with casing).

Benefits of the AXS2 range

- ∽ One independent fuse-protected load outlet
- \sim Optional: card with 3 feeders and 5 feeders
- \sim Dimensioned to operate 24/7 at rated power
- \sim Built-in lightning protection.

 $C2\Lambda$

AB = With Battery SB = Without Battery

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
AXS2 12V			
AXS2 12V 2A DIN	0,2 kg	105 x 90 x 62	2720220000
AXS2 12V 5A DIN	0,2 kg	105 x 90 x 62	2720520000
AXS2 12V 10A CG2	1,0 kg	125 x 177 x 68	2721002000
AXS2 12V 2A C7 SB	1,0 kg	243 x 195 x 96	2720207000
AXS2 12V 2A C7 AB 7AH	4,0 kg	243 x 195 x 96	2720207007
AXS2 12V 2A C24 SB	2,0 kg	322 x 248 x 126	2720224000
AXS2 12V 2A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2720224012
AXS2 12V 5A C7 SB	1,0 kg	243 x 195 x 96	2720507000
AXS2 12V 5A C7 AB 7AH	4,0 kg	243 x 195 x 96	2720507007
AXS2 12V 5A C24 SB	2,0 kg	322 x 248 x 126	2720524000
AXS2 12V 5A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2720524012
AXS2 12V 5A C24 AB 24 AH	12,0 kg	322 x 248 x 126	2720524024
AXS2 12V 5A C34 SB	3,0 kg	367 x 352 x 108	2720517000
AXS2 12V 5A C34 AB 7AH	4,0 kg	367 x 352 x 108	2720517007
AXS2 12V 5A C34 AB 17AH	10,0 kg	367 x 352 x 108	2720517017
AXS2 12V 5A C38 SB	5,0 kg	289 x 350 x 189	2720538000
AXS2 12V 5A C38 AB 40AH	20,0 kg	289 x 350 x 189	2720538040
AXS2 12V 10A C34 SB	3,0 kg	367 x 352 x 108	2721017000
AXS2 12V 10A C34 AB 17AH	10,0 kg	367 x 352 x 108	2721017017
AXS2 12V 10A C38 SB	5,0 kg	289 x 350 x 189	2721038000
AXS2 12V 10A C38 AB 24 AH	15,0 kg	289 x 350 x 189	2721038024
AXS2 12V 10A C38 AB 40 AH	20,0 kg	289 x 350 x 189	2721038040
AXS2 24V			
AXS2 24V 1A DIN	0,2 kg	105 x 90 x 62	2740120000
AXS2 24V 2,5A DIN	0,2 kg	105 x 90 x 62	2740220000
AXS2 24V 5A CG2	1,0 kg	125 x 177 x 68	2740502000
AXS2 24V 1A C7 SB	1,0 kg	243 x 195 x 96	2740107000
AXS2 24V 1A C7 AB 1,2AH	4,0 kg	243 x 195 x 96	2740107001
AXS2 24V 1A C24 SB	2,0 kg	322 x 248 x 126	2740124000
AXS2 24V 1A C24 AB 7 AH	8,0 kg	322 x 248 x 126	2740124007
AXS2 24V 2,5A C24 SB	2,0 kg	322 x 248 x 126	2740224000
AXS2 24V 2,5A C24 AB 7AH	8,0 kg	322 x 248 x 126	2740224007
AXS2 24V 2,5A C24 AB 12AH	10,0 kg	322 x 248 x 126	2740224012
AXS2 24V 2,5A C34 SB	3,0 kg	367 x 352 x 108	2740217000
AXS2 24V 2,5A C34 AB 7AH	9,0 kg	367 x 352 x 108	2740217007
AXS2 24V 2,5A C34 AB 17AH	17,0 kg	367 x 352 x 108	2740217017
AXS2 24V 2,5A C38 SB	5,0 kg	289 x 350 x 189	2740238000
AXS2 24V 2,5A C38 AB 24AH	25,0 kg	289 x 350 x 189	2740238024
AXS2 24V 5A C38 SB	5,0 kg	289 x 350 x 189	2740538000
AXS2 24V 5A C38 AB 24AH	17.0 kg	289 x 350 x 189	2740538024





> Ratings					
	20 W	60 W		125 W	
12 V DC	2 A	5	A	10 A	
24 V DC	1 A	2.5	5 A	5 A	
The currents (I _n) shown are a	at rated output power.				
> Standard-based specificat	ions				
Safety	EN 62368-1				
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2				
EMC - Emission	EN 61000-6-3 • EN 61000-6-4 • EN 5	5032 class B			
Trade	EN 50131 - 6 Grade 2 (models with ca or the unit is removed from the wall)	asing: a switch with	a wired contact lo	op detects when the cover is opened	
Environment	This product range meets the environ	nmental requireme	nts of ISO 14001, R	oHS and WEEE standards.	
> Environmental specification	ons				
Humidity	in operatio	n: relative humidity	y 20% to 95% non-	condensing	
Storage temperature		-25 °C to	o +85 °C		
Working temperature	75% of load		-10°C to +60°C		
	100% of load -10°C to +55°C			-10°C to +55°C	
Altitude	Above 2,000 m, the maximum temperature decreases by 5% every 1,000 m				
Working life	200,000 hours at 25°C for external atmosphere and 75% load				
> Input specifications					
Voltages	240 V single-phase (195 V - 265 V)				
Frequency	45 to 65 Hz				
Neutral system	TT - TN - IT				
Inrush current	limited by CTN				
Upstream circuit breaker recommended	Bipolar curve D				
Class	Class I				
	20 W	60	W	125 W	
Primary current @ 195 V	0.17 A	0.4	5 A	1 A	
Converter					
At 20% load	70%	79	9%	75%	
At rated load	82%	84	1%	84%	
> Output specifications					
Rated voltage	12 V DC			24 V DC	
Floating voltage (U_n) set at half-load and 25°C	13.6 V 27.2 V			27.2 V	
Current limitation	l _n				

AXS2 DATASHEET

> For reliable output voltage	e
Protection against external attack	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system, etc.) Short-circuit on the primary power supply by a slow-blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overcurrents and short-circuits at secondary. Short-circuits inside the product, protected by primary fuse.
Charger current limitation control	 Output current limitation allows a charging cycle to be started with a discharged battery. Protects the product completely from short-circuits on the installation. The selectivity of the protective devices is guaranteed by the battery fuse.
High-performance regulation and filtering	 Particularly efficient output voltage regulation. Dynamic regulation < 5% U_n for cumulative variations of the mains voltage and the load (from 10% to 90%). Enhanced filtering which eliminates all interference and reduces the residual ripple on the DC output. Battery capacity preserved and a guarantee of optimum system operation. LF rms ripple voltage < 0.2% U_n. HF ripple voltage (20 MHz-50 Ω) < 4% U_n. N.B.: the AXS2 range can work without a battery and be used connected directly to the mains.
> For emergency power sou	rce control
System control	 Monitoring of: The status of fuses, mains, battery. Battery voltage. Its operating status.
Battery charge management	 This function is essential for reaching the design life and to ensure optimum operation of the battery. The load voltages are factory set for "sealed" recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations.
> For optimal communication	on second se
Display and remote reporting of the information 1 LED	 Mains or rectifier fault (1 dry contact) Low voltage battery fault (1 dry contact)
On motherboard	A LED on the motherboard indicates the operational state before the cabinet is closed. Signals: - All OK: green - Faults: orange
Communication	Dry contacts (failsafe): 1 A @ 24 V DC, 0.3 A @ 125 V AC. A total of 3 dry contacts exist: - mains or rectifier - battery voltage - Tamper dry contact grouping cover opening and wall detachment.

AXS2 DATASHEET

> Connection specifications	12 V DC 2 A/5 A - 24 V DC 1 A			12 \	/ DC 10 A	- 24 V DC 5 A
Screw terminal	0.2 to 2	.5 mm²			0.2 to	6 mm²
> Options						
Kit 2 x 5 outputs (fuse protected) (only for the C34 version)	 Board to be installed by the customer. Secured by 4 clips. Connectors with 2.5 mm² screw terminals. 5 x 20 fuse, rating 4 A. 					
> Mechanical characteristics	i de la companya de l					
Version	Size W X H X D (mm)		IP	Base		Cover
DIN	105 x 90 x 62		IP10	ABS		ABS
CG2	125 x 231 x 73		-	Metal		Protective grille
C7	243 x 195 x 96		IP30	Metal, RAL 9006		ABS RAL 9003
C24	322 x 248 x 126		IP30	Metal, RAL 9006		ABS RAL 9003
C34	367 x 352 x 108		IP30	Metal, RAL 9006		Metal, RAL 7035
C38	289 x 350 x 189	IP31		Metal, RAL 7035		Metal, RAL 7035
> Types of battery cabinet						
Cabinet	Туре		12 V DC		24 V DC	
C7	Wall-mounted		7 Ah		1.2 Ah	
C24	Wall-mounted		7 Ah, 12 Ah, 24 Ah (2 x 12 Ah)		7 Ah, 12 Ah	
C34	Wall-mounted		7 Ah, 17 Ah		7 Ah, 17 Ah	
C38	Wall-mounted & floor-mo	unted	17 Ah, 24	4 Ah, 38 Ah 17 Ah, 24 Ah		
> C34 configuration						
Configuration		Space for customer equipment available (mm)				
Two 7 Ah batteries			210 x 170			
One 17 Ah battery			310 x 170			
One 17 Ah battery + two 5-o	utput boards (fuse protected)		140 >	(170	

SLAT can change specifications on his products without prior notice.



Emergency power supplies with battery - Intrusion / Access Control

12 V DC • 24 V DC

AXSE

Certified as per Standard: EN 50131 – 6 grade 3

"Alarm Systems, Intrusion and hold-up systems" VdS Approval (12V models) Certificates can be downloaded from www.slat.com



Communication by LED on the front panel • Dry Contact*

/ The AXS3 emergency power supplies with battery provide permanent and backup power for Intrusion / Access Control installations.

* This range is also available with RS485 serial link.







Main functions

- \sim Controls and reports operating status
- \sim Monitors battery presence and impedance (aging)
- \sim Protects the battery from temperature variations
- \sim Protects the battery at end of discharge
- \sim Opening and tamper contacts



Benefits of the AXS3 range

- \sim Two independent fuse-protected load outlets
- \sim Optional: card with 3 feeders and 5 feeders
- \sim Dimensioned to operate 24/7 at rated power
- \sim Built-in lightning protection
- \sim Resists short-circuits on load outlets
- \sim Resumes as soon as the mains returns.

AB = With Battery

SB = Without Battery

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
AXS3 12V			
AXS3 12V 4A C24 SB	2,0 kg	322 x 248 x 126	2620424000
AXS3 12V 4A C24 AB 7 AH	5,0 kg	322 x 248 x 126	2620424007
AXS3 12V 4A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2620424012
AXS3 12V 6A C24 SB	2,0 kg	322 x 248 x 126	2620624000
AXS3 12V 6A C24 AB 7Ah	5,0 kg	322 x 248 x 126	2620624007
AXS3 12V 6A C24 AB 12 AH	6,0 kg	322 x 248 x 126	2620624012
AXS3 12V 4A C38 SB	5,0 kg	289 x 350 x 189	2620438000
AXS3 12V 4A C38 AB 24AH	15,0 kg	289 x 350 x 189	2620438024
AXS3 12V 4A C38 SB + 5 DEP	5,0 kg	289 x 350 x 189	2620438999
AXS3 12V 6A C38 SB	5,0 kg	289 x 350 x 189	2620638000
AXS3 12V 6A C38 AB 24AH	15,0 kg	289 x 350 x 189	2620638024
AXS3 12V 6A C38 AB 40AH	20,0 kg	289 x 350 x 189	2620638040
AXS3 12V 6A C38 SB + 5 DEP	5,0 kg	289 x 350 x 189	2620638999
AXS3 12V 6A C85 SB	8,0 kg	408 x 408 x 224	2620685000
AXS3 24V			
AXS3 24V 2A C24 SB	2,0 kg	322 x 248 x 126	2640224000
AXS3 24V 2A C24 AB 7 AH	8,0 kg	322 x 248 x 126	2640224007
AXS3 24V 3A C24 SB	2,0 kg	322 x 248 x 126	2640324000
AXS3 24V 3A C24 AB 7 AH	8,0 kg	322 x 248 x 126	2640324007
AXS3 24V 3A C24 AB 12 AH	10,0 kg	322 x 248 x 126	2640324012
AXS3 24V 2A C38 SB	5,0 kg	289 x 350 x 189	2640238000
AXS3 24V 2A C38 AB 24 AH	25,0 kg	289 x 350 x 189	2640238024
AXS3 24V 2A C38 SB +5 DEP	5,0 kg	289 x 350 x 189	2640238999
AXS3 24V 3A C38 SB	5,0 kg	289 x 350 x 189	2640338000
AXS3 24V 3A C38 AB 24 AH	25,0 kg	289 x 350 x 189	2640338024
AXS3 24V 3A C38 SB +5 DEP	5,0 kg	289 x 350 x 189	2640338999
AXS3 24V 3A C85 SB	8,0 kg	408 x 408 x 224	2640385000
OPTIONS			
OPTION CARTE 5 DEPARTS FUSIBLES	-	-	9059050004

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> Ratings							
	50 W	75 W					
12 V DC	4 A	6 A					
24 V DC	2 A	3 A					
The currents (I _n) shown are a	at rated output power.						
> Standard-based specificat	ions						
Safety	EN 62368-1						
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2						
EMC - Emission	EN 61000-6-3 • EN 61000-6-4 • EN 55032 class B						
Trade	EN 50131 - 6 grade 3						
Environment	This product range meets the environmental requirement CE \longrightarrow \longrightarrow \longrightarrow \longrightarrow	ts of ISO 14001, RoHS and WEEE standards.					
Certification VdS	VdS 2115						
> Environmental specification	ons						
Humidity	while working: relative humidity	y 20% to 95% (non-condensing)					
Storage temperature	-25°C t	o +85°C					
	Power	50 W - 75 W					
Working temperature	75% of load	-10°C to +60°C					
	100% of load	-10°C to +55°C					
Altitude	Above 2,000 m, the temperature decreases by 5% every 1,000 m						
Working life	200,000 hours at 25°C for external atmosphere and 75% load						
> Input specifications							
Voltage	110 V AC - 240 V	AC single phase					
Frequency	50 to	60 Hz					
Neutral system	TT - T	N - IT					
Switch-on current	limited	by CTN					
Upstream circuit breaker required	Bipolar	curve D					
Class	Cla	ss I					
	50 W	75 W					
Primary current @ 195 V	0.51 A (12 V) - 0.52 A (24 V)	0.76 A (12 V) - 0.78 A (24 V)					
Primary current @ 99 V	1 A (12 V) - 0.98 A (24 V)	1.63 A (12 V) - 1.5 A (24 V)					
Efficiency	50 W	75 W					
At 20% load	85%	85%					
At rated load	88%	90%					
> Output specifications	1						
Rated voltage	12 V DC - 24 V DC	12 V DC - 24 V DC					
Floating voltage (U _n) set at half-load and 25°C	13.6 V (12 V) - 27.2 V (24 V)	13.6 V (12 V) - 27.2 V (24 V)					
Short-circuit current limitation	From I_n to I_n +15% for output voltage > 50% of U_n						

AXS3 DATASHEET

> For reliable output voltage	e			
Protection against external attack	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system, etc.) Short-circuit on the primary power supply by a slow-blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overvoltages on secondary. Overcurrents and short-circuits at secondary. Short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range) 			
Charger current limitation control	 Output current limitation allows a charging cycle to be started with a discharged battery. Protects the product completely from short-circuits on the installation. Protection selectivity is provided by fuses on each load output and the battery fuse. 			
High-performance regulation and filtering	 Particularly efficient output voltage regulation Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (from 10% to 90%). Enhanced filtering, which eliminates all interference and reduces the ripple on the DC output voltage. Battery capacity preserved and a guarantee of optimum system operation. LF rms ripple < 0.2% U_n. HF ripple (20 MHz-50 Ω) < 4% U_n. Note: The AXS3 and AXRS ranges can operate without battery and may be used as a direct power supply. 			
> For emergency power source control				
System control	 Monitoring of: The status of mains, battery and load fuses. Battery voltage. Its operating status. Mains voltage present in the correct operating range. 			
Battery charge management	 This function is essential for reaching the design life and to ensure optimum operation of the battery. The load voltages are factory set for "sealed" recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. The charger features battery charging current limitation. Supplying power to the load takes priority over battery charging. The battery current limit is adjustable by the customer depending on the battery capacity to ensure recharge between 0.1 and 0.3C recommended by the manufacturers. The thresholds are 25%, 50% and 75% of rated current. The selection is made by 2 microswitches. The default load current is 75% of rated current. A battery voltage compensation system maintains the charge characteristics within the limits specified by the battery manufacturer across the whole of the operational temperature range. A probe placed close to the batteries measures the temperature thereof. 			
Battery backup	 Automatic disconnection of the battery at end of discharge to preserve its future capacity. Prevents excessively deep discharge that can permanently downgrade performance (cut-out threshold 1.8V/cell). An alarm is sent before disconnection (Pre-cut alarm threshold 1.85 V/ cell). In autonomous operation, up to the cut-off threshold, the design of the SLAT unit significantly limits the charger's own consumption on the battery. This allows your application to take full advantage of the battery's capacity. 			

> Charger consumption on the battery during autonomy							
	12 V DC	24 V DC					
50 W	31.5 mA	38.5 mA					
75 W	31.5 mA	38.5 mA					
> For optimal communication							
Orange Green Green Display and remote reporting of the information	 3 LEDs on card indicate the 3 fault states. Signaling failure orange LED if fault, green otherwise. Mains fault: If mains not present. Charger fault: If no voltage on Output 1. If no voltage on Output 2. If low voltage outputs (product overload). If the mains fuse is blown or not present. If the product is out of order. Battery fault: Battery fault if no battery (test every 30 seconds during the first 20 minutes after start-up and test every 15 minutes maximum. If a fault is detected, the test is conducted every 30 seconds, and continues up to 20 minutes after the fault disappears). If battery voltage < 1.85 V/cell +/-3%. If the internal impedance is too high (test every 4 hours maximum on a charged battery). A switch with a wired contact loop detects when the cover is opened or the unit is removed from the 						
On motherboard	 A LED on the motherboard indicates the operational status before the cabinet is closed (display board not connected) or when no display board exists. Signals: All OK: green Faults: red 						
Communication AXS3	The 3 faults (mains, battery, output) are reported on 3 independent dry contacts NC / NO (failsafe). Dry contact: 1A @ 24 V DC, 0.3A @ 125 V AC. An additional tamper dry contact is provided, grouping cover openning and wall detachment.						
Communication AXRS*	 The 3 faults (mains, battery, charger) and opening of the cover and removal from the wall data are grouped one single dry contact (failsafe). Dry contact: 1 A @ 24 V DC, 0.3 A @ 125 V AC. A serial RS485 link (Modbus) allows to know precisely the fault information mentioned above and communicates the analog values (user's, battery's, charger's voltages and currents, battery temperature). The power supply is addressed by two microswitches (4 possible addresses). 						
Connection specifications	50 W/ - 75 W/						
Mains	30 W - 73 1x3nin/0 2 - 2 5	mm²/15 A					
Batteries	1x2pin/0.2 - 2.5	mm²/15 A					
Load (2 outputs)	1x2pin/0.2 - 2.5 min/15 A						
Alarm reports	$1 \times 9 \min(0.2 - 2.5 \min(0.25 + 1.5))$						
		,					

All terminal blocks are removable with screen printing on the mobile card.







Communication

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AXS3 DATASHEET

> Options							
3 fuse outputs kit	 Customer installable Printed Circuit Board. Secured by 4 clips on the motherboard. Connectors with 2.5 mm² screw terminals. 5 x 20 fuse, rating 4 A. 						
> Cabinet characteristics							
Cabinet	Dimension W x H x D (mm)	IP		Base		Cover	
C24	322 x 248 x 126	IP30		Metal, RAL 9006		ABS RAL 9003	
C38	289 x 350 x 189	IP31		Metal, RAL 7035		Metal, RAL 7035	
C85	408 x 408 x 224	IP31		Metal, RAL 7035		Metal, RAL 7035	
> Types of battery cabinet							
Cabinet	Туре		12 \	/ DC		24 V DC	
C24	Wall-mounted	7 Ah, 12 Ah, 24		Ah (2 x 12 Ah)		7 Ah, 12 Ah	
C38	Wall-mounted & Floor-mo	ounted	17 Ah, 24	Ah, 38 Ah		17 Ah, 24 Ah	
C85	Wall-mounted & Floor-mo	ounted	48 Ah (2 65 Ah (3 x 12 96 Ah (4	x 24 Ah), 2 Ah), 80 Ah, 24 Ał x 24 Ah)		ı, 38 Ah, 48 Ah (4 x 24 Ah)	
> Associated battery capacities							
Charger voltage	12 V DC			24 V DC			
Charger ratings	4 A	6 A		2 A		3 A	
Maximum battery charging current	3 A	4.5 A		1.5 A		2.25 A	
Maximum capacity C20 - 1.75 V	50 Ah	86 Ah		26 Ah		40 Ah	
Minimum capacity C20 - 1.75 V	7 Ah	7 Ah		7 Ah		7 Ah	

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COMMUNICATION

THE QUALITY OF YOUR VDI SERVICES IS BETTER WITH SLAT POWER SUPPLIES



Modern buildings are wired to transit the ever-increasing amount of information we exchange. With less than an average of 6 hours of downtime a year, we might think that our power grid is enough to power our entire communication infrastructure. However, the reality is different. The network is strongly degraded in our buildings by the powerful elevator or air-conditioning motors, the switching operations of the electrical network's protection components or the disturbances generated by new wireless applications.

For 30 years, SLAT power supplies for voice, data and image applications have been tracking technological changes to provide the best filtering and continuity of power for a quality communication service.



SELECTION GUIDE

		VOLUTIO	n	RMS IP		SDC-PoE	SDC-PoE8	SDC-PoE24	
DC output voltage	12 V	24 V	48 V	12 V	24 V	48 V	55 V	-	-
Current / Power	6 A / 8 A / 12 A / 16 A / 24 A / 32 A / 48 A	3 A / 4 A / 6 A / 8 A / 12 A / 16 A / 24 A	2 A / 3 A / 4 A / 6 A / 8 A / 12 A	24 A / 48 A	12 A / 24 A	6 A / 12 A	55 W	180 W	210 W
Number of terminal outputs	2 / 4* / 6*		5		1	-	-		
PoE/PoE+ ports		-		-		1	8	Up to 22	
HiPoE ports	-			-			-	4	-
Ethernet ports	-			1			1	-	-
SFP Ports	-			-			-	2	Up to 4
Dry contact	3			-			1	1	-
HMI	4 LEDs			Display		4 LEDs	18 LEDs	68 LEDs	
IP Communication (SNMP)	-			Yes		Yes	Yes	Yes	
Format	Box or Rack			Rack		DIN	DIN	Rack	
Battery technology	Lead			Lead		Lithium	Lithium	Lithium	
Battery control/ protection		Yes		Yes		Yes	Yes	Yes	
	V	Vithout battery	/	Compatibl	e with batt	eries up to	D	F	F
Battery capacity	7 Ah 12 Ah 17 Ah 24 Ah 36 Ah 38 Ah 48 Ah 45 Ah 80 Ah 96 Ah 120 Ah 130 Ah 140 Ah	7 Ah 12 Ah 17 Ah 24 Ah 38 Ah 48 Ah 65 Ah 80 Ah 120 Ah 130 Ah 170 Ah	2,1 Ah 7 Ah 12 Ah 17 Ah 24 Ah 38 Ah 65 Ah 80 Ah	320 Ah	140 Ah	80 Ah	G		J
Page	36-41			43-47		81-84	89-93	94-98	

*with option





Emergency power supplies with batteries - Multi-Applications

12 V DC • 24 V DC • 48 V DC

Main functions

 \sim Resists short-circuits on load outlets

 \sim Controls and reports operating status

 \sim Protects the battery at end of discharge

 \sim The installation is available as soon

 \sim Monitors battery presence

as the mains returns



Communication by LED on the front panel • Dry Contact

The EVOLUTION Emergency power supplies with batteries provide permanent and backup power for all installations.



Benefits of the EVOLUTION range

- \sim Two independent fuse-protected load outlets
- \sim Optional: 3 feeder or 5 feeder printed circuit board
- \sim Optional: parallel or redundancy box
- \sim Dimensioned to operate 24/7 at rated power
- \sim Built-in lightning protection

AB = With battery
SB = Without battery

MODEL	WEIGHT (kg)	SIZE W x H x D	CODE
EVOLUTION 12V			
EV 12V 12A C6	1,0 kg	194 x 243 x 97	1521207000
EV 12V 16A C23	2,0 kg	248 x 322 x 126	1521624000
EV 12V 24A C23	2,0 kg	248 x 322 x 126	1522424000
EV 12V 32A C23	2,0 kg	248 x 322 x 126	1523224000
EV 12V 8A F3U	3,0 kg	482 x 132 x 110	1520830000
EV 12V 12A F3U	3,0 kg	482 x 132 x 110	1521230000
EV 12V 16A RACK	3,0 kg	483 x 132 x 235	1521630000
EV 12V 24A RACK	3,0 kg	483 x 132 x 235	1522430000
EV 12V 48A RACK	4,0 kg	483 x 132 x 395	1524830000
EV 12V 6A C24 SB	2,0 kg	322 x 248 x 126	1520624000
EV 12V 6A C24 AB 7AH	5,0 kg	322 x 248 x 126	1520624007
EV 12V 6A C24 AB 12 AH	6,0 kg	322 x 248 x 126	1520624012
EV 12V 6A C24 AB 24 AH	12,0 kg	322 x 248 x 126	1520624024
EV 12V 8A C24 SB	2,0 kg	322 x 248 x 126	1520824000
EV 12V 8A C24 AB 12 AH	6,0 kg	322 x 248 x 126	1520824012
EV 12V 8A C24 AB 24 AH	12,0 kg	322 x 248 x 126	1520824024
EV 12V 6A C38 SB	5,0 kg	289 x 350 x 189	1520638000
EV 12V 6A C38 AB 40AH	20,0 kg	289 x 350 x 189	1520638040
EV 12V 8A C38 SB	5,0 kg	289 x 350 x 189	1520838000
EV 12V 8A C38 AB 40AH	20,0 kg	289 x 350 x 189	1520838040
EV 12V 16A C85 SB	10,0 kg	408 x 408 x 224	1521685000
EV 12V 16A C85 AB 65AH	34,0 kg	408 x 408 x 224	1521685065
EV 12V 48A C180 SB	20,0 kg	505 x 610 x 430	1524818000
EVOLUTION 24V			
EV 24V 3A C6	1,0 kg	194 x 243 x 97	1540307000
EV 24V 6A C6	1,0 kg	194 x 243 x 97	1540607000
EV 24V 8A C23	2,0 kg	248 x 322 x 126	1540824000
EV 24V 12A C23	2.0 kg	248 x 322 x 126	1541224000

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MODEL	WEIGHT (kg)	SIZE W x H x D	CODE
EVOLUTION 247 (CONTINUATION		
EV 24V 16A C23	2,0 kg	248 x 322 x 126	1541624000
EV 24V 24A C23	2,0 kg	248 x 322 x 126	1542424000
EV 24V 6A F3U	3,0 kg	483 x 132 x 110	1540630000
EV 24V 8A RACK	3,0 kg	483 x 132 x 235	1540830000
EV 24V 16A RACK	3,0 kg	483 x 132 x 235	1541630000
EV 24V 24A RACK	3,0 kg	483 x 132 x 235	1542430000
EV 24V 3A C24 SB	2,0 kg	322 x 248 x 126	1540324000
EV 24V 3A C24 AB 7 AH	8,0 kg	322 x 248 x 126	1540324007
EV 24V 3A C24 AB 12 AH	10,0 kg	322 x 248 x 126	1540324012
EV 24V 4A C24 SB	2,0 kg	322 x 248 x 126	1540424000
EV 24V 4A C24 AB 7 AH	8,0 kg	322 x 248 x 126	1540424007
EV 24V 4A C24 AB 12 AH	10,0 kg	322 x 248 x 126	1540424012
EV 24V 6A C24 SB	2,0 kg	322 x 248 x 126	1540624000
EV 24V 6A C24 AB 12 AH	10,0 kg	322 x 248 x 126	1540624012
EV 24V 3A C38 SB	5,0 kg	289 x 350 x 189	1540338000
EV 24V 3A C38 AB 24 AH	25,0 kg	289 x 350 x 189	1540338024
EV 24V 4A C38 SB	5,0 kg	289 x 350 x 189	1540438000
EV 24V 4A C38 AB 24 AH	25,0 kg	289 x 350 x 189	1540438024
EV 24V 6A C38 SB	5,0 kg	289 x 350 x 189	1540638000
EV 24V 6A C38 AB 17Ah	17,0 kg	289 x 350 x 189	1540638017
EV 24V 6A C38 AB 24 AH	25,0 kg	289 x 350 x 189	1540638024
EV 24V 8A C48 SB	9,0 kg	425 x 345 x 120	1540848000
EV 24V 8A C48 AB 24 AH	29,0 kg	425 x 345 x 120	1540848024
EV 24V 12A C48 SB	9,0 kg	425 x 345 x 120	1541248000
EV 24V 12A C48 AB 24 AH	29,0 kg	425 x 345 x 120	1541248024
EV 24V 16A C48 SB	9,0 kg	425 x 345 x 120	1541648000
EV 24V 16A C48 AB 24 AH	29,0 kg	425 x 345 x 120	1541648024
EV 24V 8A C85 SB	10,0 kg	408 x 408 x 224	1540885000
EV 24V 8A C85 AB 40AH	40,0 kg	408 x 408 x 224	1540885040
EV 24V 12A C85 SB	10,0 kg	408 x 408 x 224	1541285000
EV 24V 12A C85 AB 40AH	40,0 kg	408 x 408 x 224	1541285040
EV 24V 16A C180 SB	20,0 kg	505 x 610 x 430	1541618000
EV 24V 16A C180 AB 65AH	68,0 kg	505 x 610 x 430	1541618065
EV 24V 16A C180 AB 90AH	80,0 kg	505 x 610 x 430	1541618090
EV 24V 24A C180 SB	20,0 kg	505 x 610 x 430	1542418000
ЕУОЦИТІОП чеу			
EV 48V 3A C6	1,0 kg	194 x 243 x 97	1580307000
EV 48V 4A C23	2,0 kg	248 x 322 x 126	1580424000
EV 48V 6A C23	2,0 kg	248 x 322 x 126	1580624000
EV 48V 8A C23	2,0 kg	248 x 322 x 126	1580824000
EV 48V 12A C23	2,0 kg	248 x 322 x 126	1581224000
EV 48V 4A RACK	3,0 kg	483 x 132 x 235	1580430000
EV 48V 8A RACK	3,0 kg	483 x 132 x 235	1580830000
EV 48V 12A RACK	3,0 kg	483 x 132 x 235	1581230000
EV 48V 2A C24 SB	2,0 kg	322 x 248 x 126	1580224000
EV 48V 2A C24 AB 2,1 AH	6,0 kg	322 x 248 x 126	1580224002
EV 48V 3A C38 SB	5,0 kg	289 x 350 x 189	1580338000
EV 48V 3A C38 AB 12AH	21,0 kg	289 x 350 x 189	1580338012
EV 48V 4A C48 SB	9,0 kg	425 x 345 x 120	1580448000
EV 48V 4A C48 AB 12AH	25,0 kg	425 x 345 x 120	1580448012
EV 48V 6A C48 SB	9,0 kg	425 x 345 x 120	1580648000
EV 48V 6A C48 AB 12AH	25,0 kg	425 x 345 x 120	1580648012
EV 48V 8A C48 SB	9,0 kg	425 x 345 x 120	1580848000
EV 48V 8A C48 AB 12AH	25,0 kg	425 x 345 x 120	1580848012
EV 48V 6A C85 SB	10,0 kg	408 x 408 x 224	1580685000
EV 48V 6A C85 AB 24AH	50,0 kg	408 x 408 x 224	1580685024
EV 48V 12A C180 SB	20,0 kg	505 x 610 x 430	1581218000
EV 48V 12A C180 AB 65AH	116,0 kg	505 x 610 x 430	1581218065
OPTIONS			
OPTION KIT 3 DEPARTS FUSIBLES	-	-	9900080000
OPTION KIT 5 DEPARTS FUSIBLES	-	-	9059050004
A RK TCR -COMMUN	4,8 kg	485 x 44 x 430	9189000002

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> Ratings							
	75 W	100 W	150 W	200 W	300 W	400 W	600 W
12 V DC	6 A	8 A	12 A	16 A	24 A	32 A	48 A
24 V DC	3 A	4 A	6 A	8 A	12 A	16 A	24 A
48 V DC	-	2 A	3 A	4 A	6 A	8 A	12 A
The currents (I _n) shown are a	it rated output po	wer.					
> Standard-based specificat	ions						
Safety	EN 62368-1						
EMC - Immunity	EN 61000-6-1 •	EN 61000-6-2					
EMC - Emissions	EN 61000-3-2 •	EN 61000-6-3 •	EN 61000-6-4 • I	EN 55032 class E	3		
Environmental	This product ran	ge complies wi	th the environme	ntal policy (ISO	14001, RoHS and	d WEEE).	
> Environmental specification	ons						
Relative humidity		During In op	g storage: 10% to peration: 20% to 9	95% non-conde 95% non-conden	nsing relative hu sing relative hur	imidity nidity	
Storage temperature				-25°C to +85°C			
Operating temperature	Efficienc	y	75 W -	100 W		150 W - 600 V	N
	75% of lo	ad	-5°C to	+50°C		-5°C to +50°	3
	100% of lo	bad	-5°C to	+50°C		-5°C to +40°	2
Altitude		Above 2,000	m, the maximum	temperature de	ecreases by 5% e	very 1,000 m	
Service life	50,0	000 h at 25°C (e	xternal environm	ent) and 75% of	load, product ir	stalled in a cabin	et
> Input characteristics							
Voltage		98 V AC	to 264 V AC (115 v	V AC-15% to 230) V AC+15%) sing	gle-phase	
Frequency				45 to 65 Hz			
Neutral systems				TT - TN - IT			
Inrush current				limited by CTN			
Upstream circuit breaker to be provided				Bipolar D curve			
Class				Class I			
Note: For the 100 W - 150 W range:	voltage 230 V +/-15% (195 V to 264 V)					
	75 W	100 W	150 W	200 W	300 W	400 W	600 W
Mains consumption @195 V	0.5 A	0.75 A	1 A	1.5 A	2 A	3 A	4 A
Output	75 W	100	W - 150 W	200 V	V - 300 W	400 W	- 600 W
Efficiency at 20% load	71%		75%		84%	85	6%
Efficiency at rated load	85%		84%		90%	91	.%
> Output characteristics							
Rated voltage	12	V DC	:	24 V DC		48 V DC	
Floating voltage (U _n) set at half-load and at 25°C	13.6 V	+/-0.5%	27.2	2 V +/-0.5%		54.4 V +/-0.5%	6
Adjustment range in power supply mode only	12 V	- 14 V	23	3 V - 29 V		46 V - 58 V	
Charger current limitation	l _n						

EVOLUTION DATASHEET

> For reliable output volt	age					
Protection against external aggressions	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system). Short-circuit on the primary power supply by a slow blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overvoltages on secondary. Overcurrents and short-circuits on secondary. Short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range). 					
Charger current limitation	 Output current limitation allows a c Completely protects the product fr Protection selectivity is ensured by 	harge cycle to be started on an empty rom short-circuits on the installation. r fuses on each load output and the bat	battery. tery.			
High performance filtering and regulation	 Particularly efficient output voltage regulation Static regulation < 0.5% of U_n. Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (from 10% to 90%). Enhanced filtering that eliminates all noise and reduces the ripple on the DC output. Battery capacity preserved and the guarantee of optimum system operation. LF rms ripple < 0.2% of U_n HF ripple (20 MHz-50 Ω) < 4% of U_n. Note: The EVOLUTION range can operate without battery and may be used as a direct power supply. 					
> For the control of the e	mergency power source					
System control	 Monitoring of: The status of mains, battery and load fuses. Battery presence or absence. The temperature inside the cabinet (200 W to 600 W). Battery voltage and its operating status. Mains voltage present in the correct operating range. 					
Battery charge management	 This function is essential for reaching the design life and to ensure optimum operation of the battery. The charge voltages are factory set for «sealed» recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. The charger features battery charge current limitation. The supply of power to the load takes priority over the battery charge. 					
Battery backup	 Automatic disconnection of the battery at end of discharge to preserve its future capacity. Prevents deep discharge that can permanently downgrade performance (cut-off threshold 1.8 V/cell +/- 0.5%). A report is sent before disconnection (Pre-cut-off alarm threshold 1.85 V/cell +/-0.5%). Very low internal comsumption. This allows your application to take full advantage of the battery's capacity. 					
> Charger consumption o	> Charger consumption on the battery during autonomy					
	12 V DC	24 V DC	48 V DC			
75 W	32 mA	39 mA	-			
100 W - 150 W	49 mA	75 mA	85 mA			
200 W - 300 W	65 mA	45 mA	37 mA			
400 W - 600 W	141 mA	106 mA	73 mA			

> For optimal communicati	on						
	- Mains: • Presenc • Remote	 Mains: Presence indicated by a green LED. Remote reporting by dry contact with delay (failsafe). 					
SECTEUR MEINS CHARCEUR CHARCER SORTIE DUTPUT BATTERIE BATTERIE	- Charger: • Correct • Charger • Remote - Output: • Voltage If either • No asso	 Charger: Correct operation indicated by a green LED. Charger fault if mains fuse is out of order or not present, or if product is out of order. Remote reporting by dry contact with delay (failsafe). Output: Voltage presence (no threshold) on the load outputs indicated by green LED. If either of the two outputs has no voltage, the LED will go out. 					
	- Battery: • Presenc	e indicated by a green LED.					
Displaying and remote repo the information	rting of Battery installat Voltage Remote In the cas No fault: Battery of Internal A LED on not conne Signals: All OK: Battery (this fau	 Presence indicated by a green LED. of Battery fault, if battery is not present (test every 30 seconds for the 1st 20 minutes after the installation, then every 15 min) or if battery voltage < 1.85 V/cell in autonomous mode. Voltage of less than 1.85 V/cell indicated by flashing orange LED (autonomous mode). Remote reporting by dry contact with delay (failsafe). Comment: In the case of C6 cabinet installation, signaling is accomplished by a single indicator light: No fault: green Mains fault: orange Battery or charger fault, or output load not present: red (this fault takes priority over a mains fault). Internal signaling on the motherboard A LED on the motherboard indicates operational status before the cabinet is closed (display board not connected). Signals: All OK: green Mains fault: orange Battery or charger fault, or output load not present: red 					
> Connection specifications							
Screw terminal	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W			
Mains	2.5 mm ²	2.5	mm ²	2.5 mm ²			
Batteries	2.5 mm ²	6 r	nm²	10 mm ²			
Load (2 outputs)	2.5 mm ²	6 r	nm²	10 mm ²			
Alarm reports*	1.5 mm²	1.5	mm²	1.5 mm ²			
*the alarm report connecto Note: the battery and 12 V/48 A loa	r is unpluggable d terminals are 35 mm²	,		, 			
> Options							
3 or 5 fuse output kit	 Customer instal Secured by 4 cli Connectors with Fuse 5 x 20 ratin 	Customer installable printed circuit board. Secured by 4 clips on the motherboard. Connectors with 2.5 mm ² screw terminals. Fuse 5 x 20 rating 4 A.					
Omega DIN rail mounting ki	t • Adapter for mo	unting the C6 and C23 cabinet on	a DIN type rail				
Digital display on C85 cabinet.	in quantity, consu	ılt us.					
TCR cabinet	For redundancy.	or redundancy, maximal current 40 A.					

EVOLUTION DATASHEET

> Cabinet and rack characteristics						
Version	Size W x H x D (mm)	IP	Base	Cover		
C6	194 x 243 x 97	IP30	Metal, RAL 9006	ABS RAL 9003		
C23	248 x 322 x 126	IP30	Metal, RAL 9006	ABS RAL 9003		
C24	322 x 248 x 126	IP30	Metal, RAL 9006	ABS RAL 9003		
C38	289 x 350 x 189	IP31	Metal, RAL 7035	Metal, RAL 7035		
C48	425 x 345 x 120	IP30	Metal, RAL 9006	ABS RAL 9003		
C85	408 x 408 x 224	IP31	Metal, RAL 7035	Metal, RAL 7035		
C180	505 x 610 x 430	IP31	Metal, RAL 7035	Metal, RAL 7035		
Rack F3U	482 x 132 x 110	IP30	Metal, RAL 7035	Metal, RAL 7035		
Rack	483 x 132 x 235	IP30	Metal, RAL 7035	Metal, RAL 7035		
> Types of battery cabinets						
Version	Туре	12 V DC	24 V DC	48 V DC		
C24	Wall-mounted	7 Ah, 12 Ah, 24 Ah (2 x 12 Ah)	7 Ah, 12 Ah	2.1 Ah		
C38	Wall-mounted & Floor- mounted	17 Ah, 24 Ah, 38 Ah	17 Ah, 24 Ah	7 Ah, 12 Ah		
C48	Wall-mounted	24 Ah (2 x 12 Ah), 36 Ah (3 x 12 Ah), 48 Ah (4 x 12 Ah)	7 Ah, 12 Ah, 24 Ah (4 x 12 Ah)	7 Ah, 12 Ah		
C85	Wall-mounted & Floor-mounted	48 Ah (2 x 24 Ah), 65 Ah, 80 Ah, 96 Ah (4 x 24 Ah)	24 Ah, 38 Ah, 48 Ah (4 x 24 Ah)	12 Ah, 17 Ah, 24 Ah		
C180	Floor-mounted	120 Ah, 130 Ah, 140 Ah	65 Ah, 80 Ah, 120 Ah, 130 Ah, 170 Ah	38 Ah, 65 Ah, 80 Ah		

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EVOLUTION 🖗

Emergency power supplies with batteries in a 19^{''} 2U rack IP Management

12 V DC • 24 V DC • 48 V DC



Remote communication over IP and Digital Display

The emergency power supplies of the EVOLUTION RMS IP range provide permanent and backup power for all installations.



Main functions

- \sim Controls and reports operating status over IP
- \sim Monitors battery presence
- \sim Protects the battery against deep discharge
- \sim Display of status on the front panel

Benefits of the RMS IP range

- \sim Five fuse-protected load outlets
- \sim All connectors are pluggable
- \sim Built-in lightning protection
- ∼ Fully-protected product, with rear connectors

MODEL	WEIGHT (kg)	SIZE W x H x D	CODE				
EVOLUTION RMS	IP 12V						
RMS IP 12V 8A 16A UTIL	3,7 kg	483 x 89 x 395	1521634000				
RMS IP 12V 16A 32A UTIL	4,7 kg	483 x 89 x 395	1523234000				
EVOLUTION RMS	EVOLUTION RMS IP 24V						
RMS IP 24V 4A 10A UTIL	3,7 kg	483 x 89 x 395	1541034000				
RMS IP 24V 10A 16A UTIL	4,7 kg	483 x 89 x 395	1541634000				
EVOLUTION RMS IP 48V							
RMS IP 48V 2A 4A UTIL	3,7 kg	483 x 89 x 395	1580434000				
RMS IP 48V 4A 10A UTIL	4,7 kg	483 x 89 x 395	1581034000				

> Ratings									
	300 W			600 W					
	I _n	Load	l _n	I _{Load}					
12 V DC	24 A	8 to 16 A	48 A	16 to 32 A					
24 V DC	12 A	4 to 10 A	24 A	10 to 16 A					
48 V DC	6 A	2 to 4 A	12 A	4 to 10 A					
> Standard-based specificat	ions								
Safety	EN 62368-1	EN 62368-1							
EMC - Immunity	EN 61000-6-1 • EN 61000-6	-2							
EMC - Emission	EN 61000-3-2 • EN 61000-6	-3 • EN 61000-6-4 • EN 5503	32 class B						
Environment	This product range meets the	This product range meets the environmental requirements of ISO 14001, RoHS and WEEE Standards.							
> Environmental specification	ons								
Humidity	During storage: relative humidity 10% to 95% non-condensing In operation: relative humidity 20% to 95% non-condensing								
Storage temperature	-25°C to +85°C								
Working temperature	Pov	ver	300 W - 600 W						
	75% of load		-5°C to +50°C						
	100% of load -5°C to +40°C								
Altitude	Above 2,000m, the temperature decreases by 5% every 1,000m								
Working life	200,000 hours a	at 25°C (ext. environment) a	nd 75% of load, product ir	stalled in 19" rack					
> Input specifications									
Voltages	98 V AC	- 264 V AC (from 115 V AC -	15% to 230 V AC +15%) si	ngle-phase					
Frequency		45 to	65 Hz						
Neutral system		TT - 1	N - IT						
Inrush current		limited	by CTN						
Upstream circuit breaker required		Bipolar	curve D						
Class		Cla	iss l						
	300	W		600 W					
Mains consumption @ 195 V	2	A		4 A					
Converter	300	W		600 W					
At 20% load	84	%		85%					
At rated load	90% 91%								
> Output specifications									
Rated voltage	12 V DC	24 \	/ DC	48 V DC					
Floating voltage (U _n) set at half-load and 25°C	13.6 V +/-0.5%	27.2 V	+/-0.5%	54.4 V +/-0.5%					
Setting range in power supply mode only	12 V - 14 V	23 V	- 29 V 46 V - 58 V						
Charger current limitation			n						
Load voltage	13.6 V DC	27.2	V DC	54.4 V DC					

EVOLUTION RMS IP DATASHEET

> For reliable output voltage	e				
Protection against external attack	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system, etc.) Short-circuit on the primary power supply by a slow-blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overvoltages on secondary. Overcurrents and short-circuits at secondary. Short-circuits inside the product, protected by primary fuse. 				
Charger current limitation control	 Output current limitation allows a d Protects the product completely fr Protection selectivity is provided b 	charging cycle to be started on an em rom short-circuits on the installation. by fuses on each load output and the b	pty battery pattery fuse.		
High-performance regulation and filtering	 Particularly effective output voltage regulation Static regulation < 0.5% U_n. Dynamic regulation < 5% U_n for cumulative variations of the mains voltage and the load (from 10% to 90%). Enhanced filtering which eliminates all interference and reduces the ripple voltage on the DC output. Battery capacity preserved and a guarantee of optimum system operation. LF rms ripple voltage < 0.2% U_n. HF ripple voltage (20 MHz-50 Ω) < 4% U_n. NB : the EVOLUTION IP - BNS IP range can work without a battery and be used connected directly to the mains. 				
> For the control and managed	gement of the emergency power source	ce			
System control	 Monitoring of: The status of mains, battery and load fuses. Battery presence or absence. Battery voltage and its operating status. Mains voltage present in the correct operating range. 				
Battery charge management	 This function is essential to acheive the theoretical design life and to ensure optimum operation of the battery. The load voltages are factory set for "sealed" recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. The charger features battery charging current limitation. Supplying power to the load takes priority over battery charging 				
Battery backup	 Automatic disconnection of the battery at end of discharge to preserve its future capacity. Prevents excessively deep discharge that would permanently downgrade performance (cut-out threshold 1.8V/cell +/-0.5%). Information is transmitted before disconnection (pre-cut out alarm at 1.85V/cell +/-0.5%). Very low internal consumption. This allows your application to take full advantage of the battery's capacity. 				
> Charger consumption on t	he battery during autonomy				
	12 V	24 V	48 V		
300 W	65 mA	45 mA	37 mA		
600 W	141 mA	106 mA	73 mA		
> IP Communication					
Ethernet configuration	 Configuring rack communication settings using a computer. 2 groups possible: Administrator User 				
Available languages	 French English German Italian Dutch Spanish 				

> IP Communication	
Management by IP, reports viewed remotely	 The items shown on the Management screen are: • The items shown on the Management screen are: • Name of managed product. • Name of managed product. • Mains present / absent. • AC / DC converter OK or faulty. • Fuses OK or faulty. • Battery switch open / closed. • Current direction charge / discharge. • Battery present / battery circuit faulty. • Low battery: product shutdown imminent, back-up failure. • MIB made available upon request from the supervision site.
Reports viewed locally	 Display 16 characters, 1 line: Mains voltage. Battery voltage and current. Load voltage (by load output). Information about the various problems (mains, charger, fuse, battery, etc.). Integrated MMI: The user can navigate using the push button on the front panel, to the right of the display. Energy-saving function: The display automatically goes into standby mode.

EVOLUTION RMS IP DATASHEET

Connection specifications						
2.5 mm ²						
10 mm ²						
cat 5e / cat 6e (RJ45)						
5						
C/10)						

SLAT can change specifications on his products without prior notice.

VIDEOPROTECTION/URBAN NETWORKS

GET THE SMART CITY SIMPLY CONNECTED



The connected objects in urban areas are deployed everywhere to give the municipalities the means to manage more efficiently things like traffic movement, communication, waste evacuation, urban pollution, street lighting, incivility, car parks, and illegal posting ... In this way, urban areas are moving at high speed to offer their residents better daily comfort and more efficiency in public services.

All these services are based on information resources located at hotspots that transmit the data to be processed in return for action on the ground. SLAT provides power supplies for and interfaces to the electrical and internet networks that simplify the installation and operation of connected objects in urban areas.



SELECTION GUIDE

	EPV	SYNAPS IP	SYNAPS PoE2 / PoE4	SYNAPS PoE8	SDC-M RS	SDC-M IP	SDC-PoE8
Installation	Outdoor	Outdoor	Outdoor	Outdoor	Indoor	Indoor	Indoor
Application	Intermittent mains	Permanent mains	Permanent mains	Permanent mains	Permanent mains	Permanent mains	Permanent mains
Brown-out protection only	-	Yes	Yes	-	Yes	-	-
Brown-out protection with autonomy (full load)	16 h	39 min	39 min	14 min	20 min / 40 min / 1h20	19 min / 1h19	14 min
Power	100 W	55 W	55 W	180 W	55 W	55 W	180 W
DC output voltage	"12 V/24 V DC 24 V AC"	12 V / 24 V	55 V / 12 V* / 24 V*	-	12V / 24 V / 48 V	12 V / 24 V	-
Ethernet ports	2	2	1	-	-	2	-
PoE/PoE+ ports	Х	×*	2 or 4	8	-	-	8
HiPoE ports	Х	×*	-	4	-	-	4
12 V/24 V PoE ports	х	X*	X*	Х*	-	-	-
Fiber ports	Х	×*	×*	2	-	-	2
SNMP	v1	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	-	v1, v2c, v3	v1, v2c, v3
BACnet	-	IP	IP	IP	MS/TP	IP	IP
Modbus	-	-	-	-	Up to 115200 bauds	-	-
Switch	-	_	unmanaged	managed	-	-	managed
Page	50-54	55-58	59-62	63-67	72-76	77-80	89-93

*ask for our customized Synaps offer page 68



Secure 24/7 Electric power supplies - Video protection

EPV320 • EPV640 • EPV760

PVIDE

OUTDOOR



Active video surveillance, whatever the circumstances

The EPVIDEO range enables you to quickly deploy reliable and durable video protection systems, using existing public lighting infrastructures. It ensures a 24/7 power supply and continuity of service for equipment in case of power failure.



Main functions

- \sim Full Outdoor cabinet: 100% airtight, IP66.
- \sim Vandal-proof: IK10 impact resistance and cable protection housing.
- \sim Filters disturbances of the electrical network.
- \sim Remote supervision via webserver or SNMP.
- \sim Configurable reboot function
- \sim Integrated 2 port switch.
- \sim Interoperable: associativity certificate supplied with your offer

The advantages of the EPVIDEO range

- ∼ Ultra compact «plug & play» High Energy Efficiency energy pack (built-in backup).
- \sim Built-in lightning protection.
- \sim More than 1,800 complete charging cycles
- \sim Simple to put into operation: can be installed on a post, wall or in a pull box.
- \sim Version SPACE BOX: with space available for customer equipment.
- \sim Option: wide range of PoE injectors and switches.

*Manufacturer's extended warranty available, contact us for details.

A KIT POE PASSIF	0,2 kg	-	4690004000
OPTIONS			
A KIT CAMELEON PM 320	-	-	4690202997
A KIT CAMELEON PM 640	-	-	4690202998
A KIT CAMELEON PM 760	-	-	4690202999
A KIT CAMELEON SPACE BOX 320	-	-	4690602997
A KIT CAMELEON SPACE BOX 640	-	-	4690602998
A KIT CAMELEON SPACE BOX 760	-	-	4690602999
	'	'	'

MODEL

EP V320 PM V3

EP V640 PM V3

EP V760 PM V3

EP V320 SPACE BOX V3

EP V640 SPACE BOX V3

EP V760 SPACE BOX V3

MAINTENANCE PACK EP V320 PACK V3

OUTDOOR ACCESSORIES BOX

EP V640 PACK V3

EP V760 PACK V3

A BOX 1000

ACCESSORIES A KIT HPOE 60W

A KIT POE 802 3AF

A KIT POE 24W

A KIT 24V AC

A KIT HPOE 60W 802 3BT

A KIT SWITCH 5 PORTS EPV

WEIGHT (kg)

15,0 kg

19,3 kg

19,3 kg

15,7 kg

20,0 kg

20,0 kg

7,3 kg

11,3 kg

11,3 kg

6,3 kg

0,3 kg

0,3 kg

0,2 kg

0,2 kg

0,6 kg

0,3 kg

SIZE W x H x D

220 x 721 x 130

220 x 721 x 130

220 x 721 x 130

220 x 921 x 130

220 x 921 x 130

220 x 921 x 130

_

210 x 453 x 130

_

_

_

CODE

4620201003

4640201003

4645201003

4620601003

4640601003

4645601003

4620101003

4640101003

4645101003

489000000

4690008000

4690008002

4690009000

4690006000

4690007000

4690009999

> Standard based specifications					
Safaty	EN (22C0.1				
EMC Immunity	EN 02308-1				
EMC - Emission	EN 61000-2-2 EN 61000-6-2				
Application specific	EN 60068-2-5	+ - EN 55052 Class D			
	This product range is environmental policy (ISO 14))01 RoHS and WEEE)			
Environmental					
> Input characteristics					
Voltages	180 - 265 V A	C single phase			
Frequency	50 to	60 Hz			
Neutral systems	Π-	TN			
Inrush current	limited	to 12 A			
Circuit breaker to be provided upstream	D Cu	ırve			
Class	Cla	ss l			
Primary current	1	A			
Built-in lightning arrester with an unpluggable cartridge and remote signaling	type 2, 40 kA c	of current flow			
> Output characteristics					
Rated voltage (simultaneous, regulated and stabilized voltages)	12 V DC	24 V DC			
Tolerance	+/- 1%				
PoE and HiPoE	with PoE and/or HiPoE injectors (accessories)				
Total energy restored per cycle	320 Wh / 640 Wh / 760 Wh				
Average power levels	40 W / 80 W / 95 W in wir 20 W / 40 W / 47 W in sum	iter (8h on public lighting) mer (16h on public lighting)			
Max. power per output	60 W	96 W			
Max. cumulative power	100) W			
Converter efficiency	> 96% in battery	discharge mode			
Current limitation ($U > 50\% U_{a}$)	I ₂ = 5 A, U > 50% of U ₂	I ₂ = 4 A, U > 50% of U ₂			
I F ripple	10 mV	30 mV			
Output voltage regulation	r	50 · · · · · ms			
Battery					
On-board energy	> 500 Wh (EPV 320) and >	1000 Wh (EPV 640 - 760)			
Charge time	6h30 ma	x if > 0°C			
	8130 1	:-20°C			
> Integrated functions					
Delta 10 thermal regulation	limits the delta between the ambient (outdoor) to	Superature and the indoor temperature to $\pm 10^{\circ}$ C			
Intelligent Healthguard	limits the amount of energy dischar	rand to 220 Wh. 640 Wh or 760 Wh			
35% reserve canacity	maintains battery performance in very cold weat	ther and compensates for natural hattery ageing			
Reboot function (for cameras)	remote shutdown of 12 V DC and 24 V DC restartin	automatically after 8 seconds			
DAM	Monitors the devices connected to the EP Video and be logged into the webserver, what allows the cont Restarts automatically after 8 seconds.	d reboot them when faulty. Eight IP adresses can rol of 1 to 8 products.			

EPVIDEO DATASHEET

> Architecture and mechanical aspects



SPACE BOX Version

- 320 Wh, 640 Wh and 760 Wh plug & play power packs: handle makes for easy connection, with guides for greater safety; power packs start up automatically

- Full outdoor cabinet: all-weather resistance
- Protection rating: IP66
- 100% airtight and secure: no air flows (inward or outward), and protected against vermin and dust
- Anodized aluminum with fins: heat-exchange surface area increased by 40%
- Assisted internal air circulation: even heat distribution across the whole surface area, with no hot spots
- Shock resistance rating: IK10
- Wind resistance rating: CdA 0.174 (PM version), CdA 0.233 (Space Box version)
- Vandal-proof housing: protects connection cables
- «Chameleon» housing (in option): can be painted the same color as your facade, or as other street furniture

> Size and weight					
PM version	Size W x H x D (mm)	Weight (kg)			
Cabinet without housing	220 x 600 x 130	5			
Cabinet with vandal-proof housing	220 x 721 x 130	-			
Cabinet with both housings (chameleon and vandal-proof)	248 x 721 x 160	-			
EPV320	-	13.1			
EPV640	-	17.1			
EPV760	-	17.1			
SPACE BOX Version	Size W x H x D (mm)	Weight (kg)			
Cabinet without housing	220 x 800 x 130	9			
Cabinet with vandal-proof housing	220 x 921 x 130	-			
Cabinet with both housings (chameleon and vandal-proof)	248 x 921 x 160	-			
EPV320	-	15.2			
EPV640	-	19.2			
EPV760	-	19.2			
Space available for customer equipment	180 x 188 x 95				
> Environmental characteristics					
Mains power absent in discharge mode	-20°C to +50°C				
Mains power present in charge mode	-20°C to	o +50°C			
Storage temperature	-20°C to +45°C				
Humidity	from 0 to 100% (condensing)				

EPVIDEO DATASHEET

> Connection specifications							
Input on the 4 mm ² lightning arrester term	ninal						
12 V DC and 24 V DC output on 2.5 $\rm mm^2tc$	12 V DC and 24 V DC output on 2.5 mm ² terminal						
2 RJ45 ports							
Cable feedthrough: Four Ø 14 cable glands	s (allow the passage of RJ45 cables)						
> Real-time access to operating informati	on						
Web server and SNMP agent	Configuration and display of operating conditions via the IP network						
2-port 100BASE-TX switch	Auto MDX/X, connection of equipment to be powered (video camera, transmission, etc) via RJ45.						
Unique IP address for each EPV	Enables connection to the customer's network via Internet Explorer for configuration purposes						
Alarm management	Sending of SNMP traps						
Information available	 Pack serial number Power pack capacity Lightning arrester condition Mains power present Pack shutdown once 320 Wh, 640 Wh or 760 Wh has been discharged Charger operation Temperature inside the cabinet Power supplied by the charger Load output power Duration of last charge Duration of last discharge Current gauge value Maximum gauge value during the last discharge Number of charge/discharge cycles Number of interrupted cycles Total energy discharged since battery commissioning Shutdown due to overheating Charger overvoltage Maintenance to be performed: downgraded battery capacity Pack to be replaced 						
Easy to install	 Can be post, wall or pull box mounted: Takes less than 30 minutes for one person to install. Total weight to be handled during installation: 5 or 9 kg (depending on the model). Fastenings compatible with different shapes of post, and adapted to accept 20 mm universal metal banding. 						
> Accessories							
References	Description						
BOX 1000	Box to add customer equipment. Size (mm): W210 x H453 x D130						
KIT CAMELEON PM	This carter can be painted to the street furniture colors. It protects the enclosure in severe						
KIT CAMELEON SPACE BOX	environments.						
KIT HPOE 60W							
KIT HPOE 60W 802 3BT	The injectory allow to supply algorizing to the video and dusts the algorization. The supply algorization of the supply algorization of the supply of the supe of the supply of the supply of the supp						
KIT POE 802 3AF	connector.						
KIT POE 24W							
KIT POE PASSIF							
KIT 24 Vac	Voltage converter for equipment powered by 24 V AC						
KIT SWITCH 5 PORTS EPV	5-port switch with a low power consumption and an extended temperature range. Allows to connect up to 4 IP devices (camera, transmitter,) and to send information to a supervisor.						

SLAT can change specifications on his products without prior notice.



12 V DC • 24 V DC

OUTDOOR

Designed to meet WiFi, Mesh and video surveillance security requirements



Built-in functions

- ∽ Safeguards equipment via a 55 W communicating DC Micro-UPS.
- \sim Filters disturbances of the electrical network.
- \sim 10 kA lightning arrester.
- \sim Reboot function configurable from supervision.
- \sim Secure protocols: SNMP V1 & V3 / HTTPS / BACnet IP.
- \sim Fastenings for customer equipment.



Benefits of the SYNAPS IP range

- \sim Eliminates brown-outs and provides at least 15 min. backup.
- \sim Protects equipment from lightning and electromagnetic disturbances.
- \sim LifePO4 very long-life battery technology.
- \sim Space available for customer equipment (media converter, PoE injector, etc.).
- \sim Designed for outdoor use, with IP65 watertight and IK10 vandal-proof locked box.
- \sim Ultra-compact and lightweight product.

*Manufacturer's extended warranty available, contact us for details.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SYNAPS IP 12V			
SYNAPS 12V 3E IP	3.4 kg	200 x 300 x 150	89231713
SYNAPS 12V 3E IP EC	3.4 kg	200 x 300 x 150	89431723
SYNAPS 12V 3E IP SPACE BOX	5.1 kg	400 x 300 x 150	89231734
SYNAPS 12V 3E IP SPACE BOX EC	5.1 kg	400 x 300 x 150	89231744
SYNAPS IP 24V			
SYNAPS 24V 3E IP	3.4 kg	200 x 300 x 150	89431713
SYNAPS 24V 3E IP EC	3.4 kg	200 x 300 x 150	89231723
SYNAPS 24V 3E IP SPACE BOX	5.1 kg	400 x 300 x 150	89431734
SYNAPS 24V 3E IP SPACE BOX EC	5.1 kg	400 x 300 x 150	89431744
OPTIONS	CODE	OPTIONS	CODE
A KIT SYNAPS MP	90000202	A KIT CONVERTER 24 HIPOE	90000217
A KIT SYNAPS MP SPACE BOX	90000206	A KIT POE PASSIF	4690004000
A KIT SYNAPS MURAL	90000222	A KIT CONVERTER FO IP 1	90000208
A KIT SYNAPS ANTI VANDAL	90000203	A KIT CONVERTER FO IP 2	90000209
A KIT SYN TAMPER SWITCH	90000204	A KIT SWITCH 5 PORTS EPV	4690009999
A KIT CONVERTER 24 36VDC	90000212	A KIT SPLICE CASSETTE	90000223
A KIT CONVERTER 1224 POE	90000218	PROTEC SMJ8-CAT5E	5090020885
SLAT 11 rue Jean Elycée Dunu	, PD 66 60E42 Champagno au Mont d'Or C	aday FRANCE Tal : 122 479 66 62 60 . E mai	L: comm@clat.fr

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SNMP / BACnet IP communication

SYNAPS-IP is a communicating DC Micro-UPS specifically designed for 12 or 24 V DC-powered outdoor video surveillance applications. In the event of power failure, it ensures continuity of service for the equipment it powers with the integrated LiFePO4 backup function.

> Mechanical chara	> Mechanical characteristics								
Boxes	Size W x H x D (mm)	Available customer space (minimu W x H x D (mm)	m) Weight (kg)	Materials	Protection rating	CdA	Installation		
Cabinet	200 x 300 x 150*	44 x 200 x 88	3.4	Poly- carbonate	IP65 / IK10	0.066	Wall or post mounted		
SPACE BOX	400 x 300 x 150*	244 x 200 x 88	5.1	Poly- carbonate	IP65 / IK10	0.132	Wall or post mounted		
* H with cable gland	s: + 35 mm / P with lo	ck(s): + 20 mm							
Connections									
 - 3 (2+PE) Screw terminals on the lightning arrester (230 V AC power supply). - 1 Output screw terminal (12 or 24 V DC). - Permissible cross-section: 0.752.5 mm² - Cable feedthrough via 4 watertight cable glands (PSG22). - 2 RJ45 100 Mbps ports. 									
Network cables: Ethe	ernet cable Cat 5 or m	ore / shielded or unshielded / straig	ht or twisted						
> Standards-based	specifications								
EN 62368-1 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-3-2 class A EN 61000-6-3 / EN 61000-6-4 / EN 55032 Class B / UN 38.3 Ethernet IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-T, Flow Control IEEE802.3x, IEEE802.3az (Energy Efficient Ethernet EEE)									
> Environmental sp	ecifications								
Temperature									
Storage			-25 to +60°C						
Operating	-10 to +50°C in normal and backup modes-5 to +50°C in battery charge mode-40 to +50°C for the Extreme Cold version								
Humidity									
From 0 to 100% (con	idensing)								
Altitude									
Above 2,000 m, the	temperature decrease	es by 5% every 1,000 m.							
Working life									
10 years at 25 °C pro	duct external environ	ment, rated mains voltage, 75% load	d.						
> Electrical charact	eristics								
Network input									
AC network voltage		98	3 to 265 V AC						
DC network voltage		14	10 to 375 V DC						
Frequency		4	5 to 65 Hz						
Class		C	ass 1						
Current		In	rush current limited	d by NTC					
Neutral systems		T	Γ, TN, IT						
Protection against		рі	imary short circuit	and different	ial mode shock way	/es.			
Primary current @ 9	8 V AC	1.	5 A						
Primary current @ 2	65 V AC	0.	38 A						
Lightning arrestor Type 2 / 10 kA									

SYNAPS IP DATASHEET

> Operating output								
Rated voltage (U _n)	12 V DC		24 V DC					
Available output power	55 W							
Constant voltage adjustable via HTTPS interface		-8% to +13%						
Maximum power on terminal block [55 W]	4.6 A		2.3 A					
Permissible current peaks	9 A / 12 ms 23 A / 4 ms	9 A / 12 ms 4.6 A / 8 ms 23 A / 4 ms 11 A / 1.6 m						
	ŋ @ 20% loading	ŋ @ 75% loading	ŋ @ 100% loading					
Output (Smart Backup)	85%	91%	90%					
> Functional characteristics								
Operates in power-saving mode when the backup is charged.								
Filters disturbances of the electrical network.								
Without fan.								
Indicates the % of remaining autonomy.								
IP 65 cabinet								
Li-ion Smart Backup								
Latest generation Lithium-ion LiFePO4 Technology (no risk of therr	nal runaway).							
Lead-free, cadmium-free, 100% recyclable.								
Storage: 9 months without recharging.								
10 year service life.								
Advanced management settings, cell balancing, overload and over	voltage protection.							
A built-in push button disconnects the backup via a static switch. T	The battery is automatically re	connected when mains vo	oltage is restored.					
> Backup duration according to output power - 55 W (Type 3)								
	CABINETS 12 V / 24 V	alar 🔺	22 (
		Backup 3E						
Operating power	Aut	onomy expressed in hours a	ind minutes					
5 W		5h49						
7 W		4h30						
10 W		3021						
20 W		1h46						
25 W		1h26						
30 W		1h12						
35 W		1h02						
40 W		0h54						
45 W		0h48						
50 W		0h43						
55 W		0h39						
Protections								
Against atmospheric or industrial overvoltages on primary (10 kA	ightning arrester).							

Against user output overvoltages (deregulation or connection error) and by cutting with cyclical restarting if output voltage > U_n +10%.

Against overloads by limiting the power supply to $P_n + 10\%$.

Against output short-circuits by disconnecting the power supply with cyclical restart.

SYNAPS IP DATASHEET

MMI								
LED for status display and cor	ntrol (on board).							
Steady green	Flashing green	Slow flash	ing orange	Fast flashing orange	Red			
Normal mode	ECO mode Stealth mode	Backup mode		Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Power supply temperature too high - No mains (outside specified power supply range). End of backup imminent	 UPS to be changed If no output voltage If power supply out of order (charger fault). Backup fault Backup undervoltage. Backup overvoltage. 			
LEDs to give the status of the	Ethernet port activity (Li	nk / Act)	1					
	Steady green			Flashing green				
Connection established			- Connection - Activity on t	established he Ethernet link				
Communication								
2 x 100 Mbps ports make it p system status), to communica and to configure its settings v	ossible to connect SYNAF ate analog values (voltage via the on-board HTTPS w	S IP to an Ethernet r and load current, % eb site.	etwork in orde of backup rem	r to remotely view information aining, power status, internal t	(product serial number, emperature of the UPS DC)			
Auto MDI/MDI-X			yes					
MAC address table			8,000 entries					
Transmission method			Store & Forward					
Internal switch capacity			650 Mbps					
Frame size and latency (max)			1,518 octets /	′ 126 μs				
Improved version of the micr	o program		Upgrade via HTTPS web browser					
Protocols supported: IPv4, HT	ITPS, TCP, UDP, ICMP, ARF	, DHCP, SNMP V1 &	V3, BACnet IP.					
> Product references								
Interpreting your product ref	erence: SYNAPS [Voltage	3E IP or SYNAPS [V	oltage] 3E IP EC	C (Extreme Cold)				
> Accessories and options								
Model				Description				
A KIT SYNAPS MP	Pole	mounting kit						
A KIT SYNAPS MP SPACE BOX	Pole	mounting kit for SPA	CE BOX					
A KIT SYNAPS MURAL	Wall	mounting kit						
A KIT SYNAPS ANTI VANDAL	Prote	ction against cable c	utting					
A KIT SYN TAMPER SWITCH	Hous	ing opening contact	kit					
A KIT CONVERTER 24 36 VDC	Volta	ge converter: input 2	24 VDC, output	36 VDC				
A KIT CONVERTER 1224 POE	POE/I	OE+ Injector						
A KIT CONVERTER 24 HIPOE	HIPOI	njector						
	Passi	e POE INJECTOR						
	Medi	a converter: fiber op						
	5 por	t Ethernet switch						
	5 por	splice cassette						
PROTEC SMI8-CAT5F	light	ning arrestor for Eth	ernet ports					
	811	0 socor for Eth	*SLAT reserves	the right to modify the characteristic	s of its products without prior notice.			

Outdoor network interface with 2 to 4 PoE ports switch and built-in Li-ion backup power supply

PoE



SYNAPS

OUTDOOR

PoE

Designed to meet outdoor video, along with WiFi and Mesh network security requirements.

213



Built-in functions

- ∼ Safeguards up to 4 PoE/PoE+ devices, with a total PoE budget of 55 W.
- \sim Device Activity Monitoring for automatic per-port reboot.
- \sim Filters disturbances of the electrical network.
- \sim 10 kA lightning arrester.
- ∼ Reboot function configurable from supervision.
- \sim Protected and backed up Ethernet switch with up to 4 PoE ports and one Ethernet Uplink.

*Manufacturer's extended warranty available, contact us for details.

- ∼ Secure protocols: SNMP V1 & V3 / HTTPS / BACnet IP.
- \sim Fastenings for customer equipment.



Benefits of the SYNAPS PoE 2 / PoE 4 range

- \sim Eliminates brown-outs and provides at least 15 min. backup.
- \sim Protects equipment from lightning and electromagnetic disturbances.
- \sim LifePO4 very long-life battery technology.
- ∼ Space available for customer equipment (media converter)
- \sim Designed for outdoor use, with IP65 watertight and IK10 vandal-proof locked cabinet.
- \sim Ultra-compact and light weight product.

CODE MODEL WEIGHT (kg) SIZE W x H x D SYNAPS POE SYNAPS-POE 3E P2 3.5 kg 200 x 300 x 150 89931716 SYNAPS-POE 3E P2 EC 3.5 kg 200 x 300 x 150 89931726 SYNAPS-POE 3E P4 200 x 300 x 150 89931714 3.5 kg SYNAPS-POE 3E P4 EC 200 x 300 x 150 89931724 3.5 kg SYNAPS-POE 3E P4 SPACE BOX 400 x 300 x 150 89931734 5.2 kg SYNAPS-POE 3E P4 SPACE BOX EC 400 x 300 x 150 89931754 5.2 kg OPTIONS CODE OPTIONS CODE A KIT SYNAPS MP 90000202 A KIT CONVERTER POE POE1224 90000214 A KIT SYNAPS MP SPACE BOX 90000206 A KIT CONVERTER FO POE 1 90000210 A KIT SYNAPS MURAL 90000222 A KIT CONVERTER FO POE 2 90000211 A KIT SYNAPS ANTI VANDAL 90000203 A KIT EXTENDER POE COAX 90000215 A KIT SYN TAMPER SWITCH 90000204 A KIT SWITCH 5 PORTS EPV 4690009999 A KIT CONVERTER 55 12VDC 90000213 A KIT SPLICE CASSETTE 90000223 A KIT CONVERTER 55 24VDC 90000216 PROTEC SMJ8-POE-A 5090020888



SNMP / BACnet IP / HTTPS communication

SYNAPS-PoE is an outdoor network interface box dedicated to video applications and PoE powered transmissions. It performs energy conversion and data switching. In the event of a brown-out, it ensures continuity of service for the equipment that it protects with the built-in Li-ion battery.

> Mechanical characteristics								
Boxes	Size W x H x D (mm)	Available customer space (minimu W x H x D (mm)	um) We	eight (kg)	Materials	Protection rating	CdA	Installation
Cabinet	200 x 300 x 150*	60 x 200 x 88		3.5	Poly- carbonate	IP65 / IK10	0.066	Wall or post mounted
SPACE BOX	400 x 300 x 150*	260 x 200 x 88		5.2	Poly- carbonate	IP65 / IK10	0.132	Wall or post mounted
* H with cable glands	s: + 35 mm / P with lo	ck(s): + 20 mm						
Connections								
- 3 (2+PE) Screw terminals on the lightning arrester (230 V AC power supply) Cable feedthrough via 4 or 8 watertight cable glands (PG22) 1 Output screw terminal (55 V DC) 1 RJ45 1 Gbps port Permissible cross-section: 0.752.5 mm²- 2 or 4 POE / POE+ 100 Mbps Ports.						22).		
Network cables: Ethe	ernet cable Cat 5 or m	ore / shielded or unshielded / straig	ght or twist	ed				
> Standards-based	specifications							
EN 62368-1 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-3-2 class A EN 61000-6-3 / EN 61000-6-4 / EN 55032 class B / UN 38.3 Ethernet IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-T, Flow Control IEEE802.3x, IEEE802.3az (Energy Efficient Ethernet EEE)								
> Environmental sp	ecifications							
Temperature								
Storage			-25 to	+60°C				
Operating			 -10 to +50°C in normal and backup modes -5 to +50°C in battery charge mode -40 to +50°C for the Extreme Cold version 					
Humidity								
From 0 to 100% (con	densing)							
Altitude								
Above 2,000 m, the t	temperature decrease	es by 5% every 1,000 m.						
Working life								
10 years at 25 °C pro	duct external environ	ment, rated mains voltage, 75% loa	d.					
> Electrical characte	eristics							
Network input								
AC network voltage		9	8 to 265 V A	AC				
DC network voltage		1	40 to 375 V	/ DC				
Frequency		4	5 to 65 Hz					
Class		C	lass 1					
Current		Ir	nrush currei	nt limited	by NTC			
Neutral systems		T	T, TN, IT					
Protection against		p	rimary shor	rt circuit a	nd differenti	al mode shock way	es.	
Primary current @ 9	8 V AC	1	.5 A					
Primary current @ 2	65 V AC	0	.38 A					
Lightning arrestor Type 2 / 10 kA								

SYNAPS POE 2 / POE 4 DATASHEET

> Operating output									
PoE technology	IE	EE 802.3af, IEEE 802.3at, PSE typ	e B						
Rated voltage (U _n)	55 V DC								
Budget PoE via RJ45 port		30 W							
Total PoE budget		55 W							
	ŋ @ 20% loading	ŋ @ 75% loading	ŋ @ 100% loading						
Output (Smart Backup)	85%	91%	90%						
> Functional characteristics									
Operates in power-saving mode when the backup is c	harged.								
Filters disturbances of the electrical network.									
Without fan.									
Indicates the % of remaining autonomy.									
Per-port start/stop function									
Configurable manual reboot function.									
Per-port configurable DAM function (automatic shutd	lown and restart).								
IP65 cabinet									
Li-ion Smart Backup									
Latest generation Lithium-ion LiFePO4 Technology (no	o risk of thermal runaway).								
Lead-free, cadmium-free, 100% recyclable.									
Storage: 9 months without recharging.									
10 year service life.									
Advanced management settings, cell balancing, overl	oad and overvoltage protection.								
A built-in push button disconnects the backup via a st	atic switch. The battery is autom	natically reconnected when main	s voltage is restored.						
> Backup duration according to output power - 55	5 W (Type 3)								
	CABINETS POE / POE+	e an	2° •						
		Backup 3E							
Operating power		Autonomy expressed in hou	rs and minutes						
5 W		5h01							
7 W 10 W		4n 2b04							
15 W		2h12							
20 W		1h42							
25 W		1h23							
30 W		1h10							
35 W		1h							
40 W		0h53							
45 W		0h47							
50 W		0h43							
55 W		0h39							

Protections

Against atmospheric or industrial overvoltages on primary (10 kA lightning arrester).

Against user output overvoltages (deregulation or connection error) and by cutting with cyclical restarting if output voltage > U_n +10%.

Against overloads by limiting the power supply to $P_n + 10\%$.

Against output short-circuits by disconnecting the power supply with cyclical restart.

SYNAPS POE 2 / POE 4 DATASHEET

MMI							
LED for status display and cor	ntrol (on board).						
Steady green	Flashing green	Slow flash	ing orange	Fast flashing orange	Red		
Normal mode	ECO mode Stealth mode	Backup mode		Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Power supply temperature too high - No mains (outside specified power supply range). End of backup imminent	 UPS to be changed If no output voltage If power supply out of order (charger fault). Backup fault Backup undervoltage. Backup overvoltage. 		
LEDs to give the status of the	Ethernet port activity (Link / A	Act)					
	Steady green			Flashing green			
Connection established			- Connection - Activity on t	established he Ethernet link			
LED to give the status of the F	PoE / PoE + power supply						
	Steady orange			Off			
PoE active			PoE inactive				
Communication							
1 x 1 Gbps port makes it possible to connect the end switch to the Ethernet network (or for local diagnosis) in order to consult information remotely (product serial number, system status), to communicate analog values (voltage and load current, % of backup remaining, power status, internal temperature of the UPS DC) and to configure its settings via the on-board HTTPS website.							
2 or 4 x 100 Mbps PoE / PoE+ supervision systems.	ports make it possible to conr	nect the SYNAPS	-PoE to protec	ted equipment and to transmit	t their data or video feeds to		
Auto MDI/MDI-X	DI/MDI-X yes						
MAC address table			8,000 entries				
Transmission method			Store & Forwa	ard			
Internal switch capacity			650 Mbps				
Frame size and latency (max)			1,518 octets /	126 μs			
Improved version of the micro	o program		Upgrade via H	ITTPS web browser and TFTP			
Protocols supported: IPv4, HT	TPS, TCP, UDP, ICMP, ARP, DHC	CP, SNMP V1 & \	/3, BACnet IP.				
> Product references							
Interpreting your product refe	erence: SYNAPS-POE 3E P [2 o	r 4] [SPACE BOX] or SYNAPS-P	OE 3E P [2 or 4] EC (Extreme Co	old)		
Available from www.slat.com	and SLAT Catalog.						
> Accessories and options							
Model				Description			
A KIT SYNAPS MP	Post moun	ting kit					
A KIT SYNAPS MP SPACE BOX	Post moun	iting kit for SPAC	CE BOX				
	Wall moun	iting kit		1			
	Anti-vanda	ilism kit: protect	tion against cat	Die cutting			
	Switch for	the detection of					
	Voltage co	nverter: input 5	EVDC, output	12 V DC			
		nverter from IE	FE 802 2af/at E	24 V DC			
	Ethernet/f	ibre ontic media	a converter (1 f	iher norts)			
A KIT CONVERTER FO POE 2	Fthernet/f	ibre ontic media	a converter (2 f	iber port)			
A KIT EXTENDER POF COAX	Coaxial ext	tension kit for Fi	thernet /PoF ne	etwork			
A KIT SWITCH 5 PORTS FPV	5-nort unn	nanaged Fast Ft	hernet switch				
A KIT SPLICE CASSETTE	Fiber splice	e cassette					
PROTEC SMJ8-POE-A	Surge prot	ector for PoE/Po	DE+/HiPoE port	S			
		, · · ·					

*SLAT reserves the right to modify the characteristics of its products without prior notice.

SYNAPS Poe 8



Network interface with built-in managed switch (HiPoE, fiber) and Li-ion backup

PoE/PoE+/HiPoE (IEEE 802.3af/at/bt)

OUTDOOR

 Designed to meet the requirements of video applications, connected city objects along with WiFi and Mesh security networks



Built-in functions

- ∼Provides 180 W in Power Over Ethernet
- \sim Powers and secures up to 8 PoE/PoE+/HiPoE devices
- \sim Two independent or redundant fiber links
- \sim Managed layer 2 switch
- \sim Protected and backed-up switch with extended security features
- \sim Device Activity Monitoring for an automatic reboot of each port.
- \sim Control of the connected objects by secured webserver
- \sim 10 kA lightning arrester for lightning strikes
- \sim Long-life LiFePO4 battery technology

Key product features

- \sim Powers all types of PoE cameras up to 90 W
- \sim Allows data transmission to up to 20 km via optical fiber
- \sim Efficiently manages the video flows thanks to its multiple dedicated functions
- \sim Eliminates brown-outs and provides at least 14 minutes of backup
- ~ Protects the equipment from lightning and electromagnetic disturbances
- \sim Provides space for customer equipment (4G modem, recorder...)
- \sim Designed for outdoor use with a watertight, vandalproof box and a stainless steel plate
- \sim Easy to install thanks to its large door with key lock

*Extension of the manufacturer's warranty possible, contact us for details

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SYNAPS PoE8			
SYNAPS-POE 5F 8P2F HIGH BOX	6,6 kg	300 x 400 x 150	89952765
OPTIONS	CODE	OPTIONS	CODE
A KIT SYNAPS MP HIGH BOX	90000221	A KIT SPLICE CASSETTE	90000223
A KIT SYNAPS MURAL	90000222	A KIT EXTENDER POE COAX	90000215
A KIT SYN TAMPER SWITCH	90000204	PROTEC SMJ8-POE-A	5090020888
A KIT CONVERTER POE POE1224	90000214		

SNMP / BACnet IP communication

> Mechanical chara	> Mechanical characteristics									
Boxes	Size W	x H x D (mm)	Available customer space W x H x D (mm)	(minimum)	Weight (kg)	Materials	Protection rating	CdA	Installation	
High Box	300 x	400 x 150*	110 × 160 × 115 130 × 160 × 115	5	6.6	Poly- carbonate	IP65 / IK10	0.132	Wall or post mounted	
* H with cable glands	s: + 35 m	m / D with lo	cks: + 20 mm							
Connections		1								
Mains		3 (2+PE) Sc	rew terminals on the lighting	arrester (230	VAC power s	upply)				
PoE ports		8 RJ45 port	S	Ethernet cal shielded, str	ble Category 5 raight or twiste	e or more (P ed cables	oE/PoE+)/ Category	/ 6a or m	iore (HiPoE)	
SFP ports		2 SFP ports		SFP module	1000 Mbps tra	ansceiver				
Digital Input/ Dry C	Contact	Screw term	inal with plug-in connector v	vith polarizing	g slot					
Cable feedthrough v	ia 8 wate	ertight cable §	glands (PSG22)							
> PoE										
PoE/PoE+/HiPoE Po	orts			4 ports, si IEEE 802.3	4 ports, support PoE Power Pin Type: End-span (Mode A) IEEE 802.3af/at/bt - 15 W / 30 W / 60 W / 90 W per port					
PoE/PoE+ Ports				4 ports, si IEEE 802.3	4 ports, support PoE Power Pin Type: End-span (Mode A) IEEE 802.3af/at - 15 W / 30 W per port					
Power				Per port P	PoE function co	onfiguration				
PoE Budget				180 W						
> Communication										
Communication one	ad			PoE ports			10 / 100 / 100	0 Mbps		
Communication spe	ea			SFP ports			100 / 1000 Mb	ps		
Application layer p	rotocols			HTTPS, BACnet IP, SNMP (v1, v2c, v3), DHCP						
Network layer prot	ocols			IPv4, ICMP						
> Switch properties	6									
Priority Queues				8	8					
Max. Number of VI	ANs			4094	4094					
VLAN ID Range				VID 1 to 4	VID 1 to 4094					
IGMP Groups				1024						
MAC Table Size				Up to 8K I	Up to 8K MAC addresses					
Jumbo Frame Size				9.6 KB						
Performance										
Capacity of the forv (Mpps) (64-byte pa	warding ckets)	rate in Milli	ons of Packets per Second	14.88 Mp	ps					
Switching Capacity	in Giga	bits per Seco	ond (Gbps)	20 Gbps	20 Gbps					

> Switching characteristics							
Layer 2 Switching							
Commission Tree Destand (CTD)	Standard Spanning Tree (STP) IEEE 802.1D						
	Rapid Spanning Tree (RSTP) IEEE 802.1w						
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 5 groups, up to 8 ports per group						
VLAN	Supports up to 4K VLANs simultaneously (out of 4094 VLAN IDs); Port-based VLAN; 802.1Q tag-based VLAN						
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 1024 multicast groups (source-specific multicasting is also supported)						
Security							
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch						
Port Sicherheit	Locks MAC Addresses to ports, and limits the number of learned MAC addresses						
IP Source Guard	Prevents datagram with spoofed addresses from being in the network						
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast or unicast storm of port						
ACLs	Supports for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag						
Quality of Service							
Hardware Priority Queue	Supports 8 hardware queues						
Scheduling	Strict priority and weighted round-robin (WRR)						
Schedoling	Queue assignment based on DSCP and class of service (802.1p/ CoS)						
Classification	Port based; 802.1p VLAN priority based; IPv4 precedence/ type of service (ToS) / DSCP based						
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based						
Management (Web/SSL, SNMP, BACnet)							
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTPS). Supports configuration, system dashboard, maintenance and monitoring.						
Firmware upgrade	Web browser upgrade (HTTPS)						
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to a single destination port. A single session is supported.						
Other management	Single IP management; HTTPS; RADIUS; DHCP Client; SNTP; cable diagnostics						
Green Ethernet							
Link detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power o Gigabit Ethernet RJ45 port when detecting link down or Idle of client. Active mode is resume without loss of any packets when the switch detects the link up.						
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.						
Eco Mode	Shifts automatically to power-saving mode.						
Discovery							
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities and neighbors on a IEEE 802 local area network, principally wired Ethernet.						
The configuration of the switch functions is done via the embedded website.							

> Signaling					
1 LED for the "PoE Load" level on the front panel					
1 LED for the product "Status" on the front panel					
8 LEDs indicate the PoE activity on the corresponding port (green)					
8 LEDs indicate the data transmission activity on the corresponding port	: (yellow)				
> Environmental specifications					
Temperature					
Storage	-25°C +60°C				
	at 100% load: -10°C +45°C				
Operating	at 50% load: -10°C +50°C				
Humidity					
0 to 100 % condensing					
Altitude					
Above 2,000 m, the temperature decreases by 5% every 1,000 m.					
Service life					
10 years at 25°C product external environment, rated mains voltage, 75°	% load				
> Electrical characteristics					
Network Input					
AC network voltage	195 V 265 V AC				
Frequency	45 Hz 65 Hz				
Class	1				
Inrush current	Limited by NTC				
Neutral system	TT, TN, IT				
Protection against	primary short-circuit and differential mode shock waves				
Primary current @ 195 V	1.85 A				
Primary current @ 265 V	1.70 A				
Lightning arrestor	Type 2 / 10 kA				
Functional characteristics					
Operates in power-saving mode when the backup is charged.					
On/Off function per PoE port.					
Filters disturbances of the electrical network.					
Fan-cooling.					
Configurable reboot function (stop and restart automatically) on each PoE-port.					
Indicates the % of the remaining autonomy.					
Protections					
Against atmospheric or industrial overvoltage on primary (10 kA lightning arrester).					
Against overload by power limitation to P_n +10%.					
Against overcurrent and short-circuits on the output by disconnecting the PoE port at $I > I_n + 10\%$.					
Smart backup					
SYNAPS-PoE8 is available with the backup pack	5F				
Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway).					
Lead-free, cadmium-free, 100% recyclable.					
Storage: 9 months without recharging.					
10 year service life.					
Advanced management settings, cell balancing, overload and overvoltage protection.					
A built-in push button disconnects the backup via a static switch. The battery is automatically reconnected when mains voltage is restored					

SYNAPS POE8 DATASHEET

Backup duration according to output power					
	Backup	F			
Operating power	Autonomy expressed in	hours and minutes			
10 W	2h07				
20 W	1h29				
30 W	1h09				
40 W	0h55				
50 W	0h46				
60 W	0h40				
70 W	0635				
80 W	Uh3 I				
90 W	Oh28				
110 W	0123				
120 W	0h23				
130 W	0h21				
140 W	0h18				
150 W	0617				
160 W	0h16				
170 W	0h15				
180 W	0h14				
> Standards					
IEEE Standards					
IEEE 802.1D	Standard Spanning Tree / Multicast				
IEEE 802.1w	Rapid Spanning Tree (RSTP)				
IEEE 802.1Q	VLAN				
IFFE 802.1X	Radius				
IFFE 802.3ad	Link Aggregation Control Protocol (LACP)				
IFFF 802 3i					
IFFE 802 3u	100BaseT(X) and 100BaseEX				
IEEE 802.3ab					
	1000PaseV				
IEEE 802.3X	Flow Control				
IEEE 802.3df	PoE				
IEEE 802.3at	POE+				
IEEE 802.3bt	HiPoE (type 3 & 4)				
IEEE 802.3az	Energy Efficient Ethernet				
Electrical standards	1				
Safety	EN 62368-1 (2014)				
EMC - Immunity	EN 61000-6-1 (2007), EN 61000-6-2 (2006)				
	EN 61000-6-3 (2007), EN 61000-6-4 (2007) + A1 (2011)				
EMC - Emissions	EN 61000-3-2 (2006) (class A)				
	EN 55032 (2015) (class B)				
Security standards					
Transportation security	UN 38.3				
> Accessories and options					
Pole mounting kit	Converter: input IEEE 802.3af/at PoE to 12 or 24 V Coaxial extension kit for Ethernet / DC PoE network				
Housing opening contact kit	Surge protector for PoE/PoE+/HiPoE ports	Splice cassette			

 $\ensuremath{^{*}\text{SLAT}}$ reserves the right to modify the characteristics of its products without prior notice.



OUTDOOR



An industrial product designed and assembled for your application, your environment and your equipment.

Specific to the needs for outdoor video applications along with WiFi and Mesh network security requirements.



Your benefits

Entrust the design to our experts:

- \sim 1 order only.
- \sim Pre-assembled product.
- \sim Time saved during your installations.
- \sim Guaranteed smooth operation of the system.
- \sim Peace of mind with the CE marking.
- \sim 2-year global warranty with option to extend.

Benefits of the SYNAPS range

- \sim Eliminates brown-outs and provides emergency power according to your needs.
- \sim Protects equipment against lightning and electromagnetic disturbances.
- \sim Back-up technology service life ten years.
- \sim Designed for outdoor use, with IP65 watertight and IK10 vandalism-proof locked cabinet.
- \sim Ultra compact and lightweight product.
- Monitoring by secure protocols: HTTPS / SNMP V1, V2c and V3 / BACnet IP.

Options (mounted)	Benefits			
Switch	Ethernet switch: 2 to 8 ports PoE switch: 2 to 4 PoE ports + 1 Ethernet Uplink Managed PoE-Switch: 8 PoE-Ports + 2 SFP-Ports			
Power supply	Power supply to connected equipment: total power 55 W - 180 W Filters interference from the electrical grid			
Back-up	Built-in emergency power			
Mains lightning arrester	Protection up to 40 kA			
Load lightning arrester	Protection of Ethernet and PoE/PoE+/HiPoE outlets			
Voltage converter	Output voltages 12 / 24 / 36 / 55 V DC			
PoE injector	Equipment power supply: PoE / PoE+ / HiPoE (IEEE 802.3af/at/bt) PoE 12 V / PoE 24 V Passive PoE			
Media converter	Connection to fibre and coaxial networks			
230 V socket	Connecting/plugging in maintenance equipment			
Tamper detection	Contact for break-in detection			
Extreme Cold	Operation at extremely low outdoor temperature (up to - 40°C)			
Splice cassette	Separation of the fiber strands and creation of the splice			
Accessories	Benefits			
Anti-vandalism kit	Protection against cable cutting			
Pole mounting kit	Fixing on a mast/pole or wall			

The customised SYNAPS: all the benefits of a standard SYNAPS adapted to your installations.

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BUILDING MANAGEMENT

SLAT BRINGS INNOVATIVE SOLUTIONS TO YOUR TECHNICAL NETWORKS



With the proliferation of information exchange points in the technical networks of buildings, towns and cities or fluid networks, a communication solution is necessary to reduce operational maintenance costs.

SDC products meet this requirement and offer a variety of media and protocols for data exchange. They provide filtering of network disturbances by means of their built-in lithium battery with a 10-year lifespan.

The SDC-PoE range powers the objects connected by the RJ45 cable and ensures their operational maintenance even in the event of a software failure.



SELECTION GUIDE

	soc-m Rs	SOC-M IP	SDC-PoC	SDC-PoE4	SDC-PoE8	SDC-PoC24
DC output voltage	12V / 24 V / 48 V	12 V / 24 V	55 V	-	-	-
Power	55 W	55 W	55 W	55 W	180 W	210 W
Brown-out protection only	Yes	-	-	-	-	-
Brown-out protection with autonomy (full load)	20 min / 40 min / 1h20	19 min / 1h19	20 min / 1h19	20 min / 39 min	14 min	12 min / 24 min
Switch	-	-	-	unmanaged	managed	managed
Ethernet ports	-	2	1	1	-	-
PoE/PoE+ ports	-	-	1	4	8	Up to 22
HiPoE ports	-	-	-	-	4	-
SFP Ports	-	-	-	-	2	Up to 4
SNMP	-	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3	v1, v2c, v3
BACnet	MS/TP	IP	IP	IP	IP	IP
Modbus	Up to 115200 bauds	-	-	-	-	-
Page	74-76	77-80	81-84	85-88	89-93	94-98







Micro-UPS with "Smart Backup Inside" and very long service life.



Built-in functions

- \sim Maintains the power supply in the event of a power failure or glitch.
- \sim Filters electromagnetic disturbances.
- \sim Avoids erratic operation due to network glitches.
- \sim Delivers a constant voltage to equipment.
- \sim Output voltage adjustable from -8% to +13%.

Key product features

- \sim Ultra-compact / Plug and Play, parallel configuration without accessories.
- \sim Performs self-diagnostic and that of its environment.
- \sim Selection of Modbus or BACnet configuration via a software.
- \sim Highly reliable Supercap or LiFePO4 technology.
- \sim Service life of more than 10 years.
| MODEL | WEIGHT (kg) | SIZE W x H x D (mm) | CODE |
|--------------------------|-------------|---------------------|----------|
| SDC-M RS 12V | | | |
| SDC-M 12V 2D DMR RS | 0.5 kg | 161 x 92 x 65 | 81220102 |
| SDC-M 12V 2D BOX2 RS | 0.9 kg | 285 x 198 x 61 | 81220212 |
| SDC-M 12V 3B DIN1 RS | 0.6 kg | 100 x 124 x 82 | 81239112 |
| SDC-M 12V 3D DIN1 RS | 0.7 kg | 100 x 124 x 82 | 81230112 |
| SDC-M 12V 3D DIN1 RS DR | 0.7 kg | 100 x 124 x 82 | 81230912 |
| SDC-M 12V 3G DIN2 RS | 1.4 kg | 100 x 124 x 122 | 81233122 |
| SDC-M 12V 3D BOX2 RS | 1.0 kg | 285 x 198 x 61 | 81230212 |
| SDC-M 12V 3G BOX2 RS | 1.6 kg | 285 x 198 x 61 | 81233212 |
| SDC-M RS 24V | | | |
| SDC-M 24V 2D DMR RS | 0.5 kg | 161 x 92 x 65 | 81420102 |
| SDC-M 24V 3B DIN1 RS | 0.6 kg | 100 x 124 x 82 | 81439112 |
| SDC-M 24V 3D DIN1 RS | 0.7 kg | 100 x 124 x 82 | 81430112 |
| SDC-M 24V 3E DIN2 RS | 1.0 kg | 100 x 124 x 122 | 81431122 |
| SDC-M 24V 3G DIN2 RS | 1.4 kg | 100 x 124 x 122 | 81433122 |
| SDC-M 24V 3G BOX2 RS | 1.6 kg | 285 x 198 x 61 | 81433212 |
| SDC-M RS 48V | | | |
| SDC-M 48V 3B DIN1 RS | 0.6 kg | 100 x 124 x 82 | 81839112 |
| SDC-M 48V 3D DIN1 RS | 0.7 kg | 100 x 124 x 82 | 81830112 |
| SDC-M 48V 3G DIN2 RS | 1.4 kg | 100 x 124 x 122 | 81833122 |
| SDC-M 48V 3D BOX2 RS | 1.0 kg | 285 x 198 x 61 | 81830212 |
| SDC-M 48V 3G BOX2 RS | 1.6 kg | 285 x 198 x 61 | 81833212 |
| OPTIONS | | | |
| A SETUP KIT SAFE DC RS | - | - | 9000002 |
| A KIT BOX2 TAMPER SWITCH | - | - | 90000200 |

> Mechanical characte	eristics							
Boxes		Size W x H x D (mm)	W	eight (kg)	Materials	Protection rating	Installation	
	DIN1	100 x 124 x 82	0	.44 - 068	Aluminium	IP20	DIN rail	
	DIN2	100 x 124 x 122	0.	.96 - 1.36	Aluminium	IP20	DIN rail	
in the second	DMR	161 x 92 x 65		0.5	ABS	IP20	DIN rail	
Fareholden	BOX2	285 x 198 x 61	(0.9 - 1.6	ABS	IP30	Wall- mounted	
> Connections								
DIN1		DIN2			DMR	BOX2		
Screw terminals with p	plug-in conn	ectors with polarizing slot.		Two output	s on screw terminals.	 Cable feedthrough glands or cable gro Screw terminals. 	n via 3 cable ommet.	
Connections: mains, 1	output, RS4	85 communication						
Capacity of terminal b	locks / Cable	e size: 0.2 to 2.5 mm ²						
> Standard-based spe	cifications							
EN 62368-1 / EN 61000	-6-1 / EN 610	000-6-2 / EN 61000-3-2 A class				CC PK	\checkmark	
EN 61000-6-3 / EN 6100	00-6-4 / EN 5	5032 class B / UN 38.3					RoHS 3 2015/865	
> Environmental spec	ifications							
Temperature								
Storage			-	25 to +60°C				
Operating			-	10 to +55°C	at 100% load in norma	al and backup mode		
Operating			-	5 to +55°C a	t 100% load in battery	charge mode		
Humidity								
Storage			r	elative humi	dity 10 to 95%			
Operating			r	elative humi	dity 20 to 95%			
Altitude								
Above 2,000 m, the m	aximum tem	perature decreases by 5% ever	y 1,00	00 m				
Service life								
10 years at 25 °C prod	uct external	environment, rated mains volta	ige, 7	5% load				
> Electrical characteris	stics							
Network input								
Voltage network AC			9	98 to 265 V AC				
Voltage network DC			1	140 to 375 V DC				
Frequency			2	15 to 65 Hz				
Class			(Class 1				
Current			I	nrush curren	nt limited by NTC			
Neutral systems			1	ΓΤ, TN, IT				
Protection against			k	orimary shor	t circuit and differentia	al mode shock waves.		
Primary current @ 98	V AC		C	0.8 A [30 W]	; 1.5 A [55 W]			
Primary current @ 265 V AC 0.8 A [30 W] ; 0.38 A [55 W]								

SDC-M RS DATASHEET

> Operating output						
Rated voltage (U _n)		12 V D	DC	2	24 V DC	48 V DC
Output current (I _n) 30 W		2.5 A	2.5 A 1.25 A		1.25 A	-
Output current (I _n) 55 W		4.6 A	4.6 A		2.3 A	1.15 A
Maximum output power				30	W / 55 W	
Precision on voltage					1%	
Adjustment by potentiomet	ter [55 W]			-8%	% to +13%	
Current limitation – short-ci	cuit current P _{max} to P _{max} +10% with output voltage > 6 V				e > 6 V	
Peak current				2 I _n durin	g 0.004 second	
HF ripple peak-peak (20 MH	Iz-50 Ω)			< -	4% of U _n	
Effective LF ripple				< 0	.5% of U _n	
Static and dynamic regulation	on characteristics	< 5% of U	, for cumulat	ive change	es in sector and loa	d (from 10% to 90%)
		ŋ @ 20% lo	oading	ŋ @ 7	75% loading	ŋ @ 100% loading
Output (Smart Backup)		90%			93%	92%
> Functional characteristics	;	-				
Operates in power-saving mo	de when the backup is charged	d.				
Remote controlled stealth mo	ode.					
Filters disturbances of the ele	ectrical network.					
Indicates the % of remaining	autonomy.					
(not for 48 V) Parallel configu	ration without accessories for:	power increase /	increase of th	e backup /	redundancy.	
Push-button disconnect of th	e backup (reset).					
Smart backup						
	Type 30 W	_	2D		-	-
Backup type	Type 55 W	3B	3D		3E	3G
Latest generation Lithium-id	on LiFePO4 technology: 2D. 3	D. 3E. 3G.				
Back-up 3B - SuperCap tech	nology with a back-up time o	f 3 seconds at 10	0% load - 500	000 cvcle	s.	
Storage: 9 months without	recharging.		0,01044 000			
10 years service life						
Advanced management set	tings, cell balancing, overload	and overvoltage	protection.			
Protection against deen disc	charge		protection			
A front panel pushbutton (on the board for BOX2) disconnects the backup via a static switch. The battery is automatically reconnected when						
Backup duration according	to output power - 30 W (Type	2)				
		DI	MR	BOX	2	
	T success					
	·					
	12 V / 24 V 12 V					
Operating power		Autonomy	evpressed in	2D	l minutes	
5 W		Autonomy	3h23	3	- minutes	
7 W	2h32					
10 W	1h48					
15 W			1h13	3		
20 W			0h55	5		
25 W			0h44	1		
30 W			0h36	0		

SDC-M RS DATASHEET

Backup duration according to output power - 55 W (Type 3)					
	DIN1 12 V / 24 V / 48 V	DIN1 12 V / 24 V / 48 V BOX2 12 V / 24 V / 48 V	and and a second se	DIN2 12 V / 24 V / 48 V BOX2 12 V / 24 V / 48 V	
	Backup 3B	Backup 3D	Backup 3E	Backup 3G	
Operating power	Autonomy expressed in hours and minutes				
5 W		3h10	6h20	12h40	
7 W	-	2h24	4h48	9h36	
10 W		1h46	3h31	7h02	
15 W	-	1h13	2h25	4h49	
20 W	-	0h55	1h50	3h40	
25 W		0h44	1h28	2h56	
30 W	IVIINIMUM 3 seconds	0h37	1h14	2h27	
35 W	-	0h32	1h03	2h06	
40 W		0h28	0h55	1h50	
45 W	1	0h25	0h49	1h39	
50 W	1	0h22	0h44	1h28	
55 W	1	0h20	0h40	1h20	

Protections

Against overvoltages on primary (atmospheric or industrial causes) by varistor and filter.

Against surges in user output (connection error) by breaking with cyclical restart if output voltage > U_n +10%.

Against overcurrent by limiting the power supply to P_n +10%.

Against output short-circuits by disconnecting the power supply with cyclical restart.

MMI

LED for status display and control

Permanent green	Flashing green	Slow flashing orange	Fast flashing orange	Red
Normal mode	ECO mode Stealth mode	Backup mode	Installation fault - Overcurrent, short circuit. - Low voltage output (product overload). - Excessive power supply temperature - If no mains (outside speci- fied power supply range) End of backup imminent	 UPS to be changed If no output voltage. If power supply out of order (charger fault). Battery fault Backup undervoltage. Backup overvoltage.

Communication

A RS485 type serial link retrieves information remotely (product serial number, system status) and communicates the analog values (voltages and load current, % of remaining backup, rectifier, and internal temperature of the DC UPS).

The on-board Modbus communication protocol is factory set. it may can be configured in BACnet protocol via the configuration software that can be downloaded on www.slat.com (setup details in the manual).

1 dry contact (open collector): 60 V DC / 1.1 A

> Product references

Interpretation of the product reference designations: SDC-M [Voltage] [Backup] [Box] RS

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DC Micro-UPS, SNMP / BACnet IP Protocols

12 V DC – 24 V DC

Micro-UPS with Smart Backup Inside and long service life.





DIN1 100 x 124 x 82 mm



Built-in functions

- \sim Backup LiFePO4 inside with very long life.
- \sim Reboot function available.
- \sim Open protocols HTTPS / SNMP / BACnet IP.
- \sim Closely securises IP applications' functions in case of a power cut.
- Delivers a constant voltage to equipment, adjustable via HTTPS website, from -8% to +13%.

Key product features

- \sim Ultra-compact / Plug and Play.
- \sim Performs self-diagnostic and that of its environment.
- \sim Saves wiring.
- \sim 2 Ethernet ports protected against glitches.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-M IP 12V			
SDC-M 12V 3D DIN1 IP	0,7 kg	100 x 124 x 82	81230113
SDC-M 12V 3G DIN2 IP	1,4 kg	100 x 124 x 122	81233123
SDC-M 12V 3D BOX2 IP	1,0 kg	285 x 198 x 61	81230213
SDC-M 12V 3G BOX2 IP	1,6 kg	285 x 198 x 61	81233213
SDC-M IP 24V			
SDC-M 24V 3D DIN1 IP	0,7 kg	100 x 124 x 82	81430113
SDC-M 24V 3G DIN2 IP	1,4 kg	100 x 124 x 122	81433123
SDC-M 24V 3D BOX2 IP	1,0 kg	285 x 198 x 61	81430213
SDC-M 24V 3G BOX2 IP	1,6 kg	285 x 198 x 61	81433213
OPTIONS			
A KIT BOX2 TAMPER SWITCH	-	-	90000200

> Mechanical char	racteristics								
Boxes		Size W x H	x D (mm)	Weight (kg)	Mate	rials	Protection rating	Installation	
	DIN1	100 x 124 x 82		0.68	Aluminium		IP20	DIN Rail	
	DIN2	100 x 12	4 x 122	0.96 - 1.36	Alumi	nium	IP20	DIN Rail	
Banda Ban	BOX2	285 x 19	98 x 61	1 - 1.6	AB	S	IP30	Wall- mounted	
Connections								1	
	DIN1			DIN2			BOX2		
- 2 Screw terminal (Input 110 / 230 - 2 RJ45 ports 100	s with plug-in V AC, 1 outpu Mbps.	connectors with t 12-24 V DC)	n polarizing slot.			 Cable f 2 Screv input 1 2 RJ45 	eedthrough via 3 cable v terminals on the PC b 10 / 230 V AC, 1 output ports 100 Mbps (on the	glands. oard: : 12-24 V DC e PC board).	
Network cables: E	thernet cable	Cat 5 or more /	shielded or unshie	elded / straight or	twisted				
> Standard-based	specifications	5							
EN 62368-1 / EN 61000-6-1 / EN 61000-6-2 / EN 61000-3-2 A class EN 61000-6-3 / EN 61000-6-4 / EN 55032 class B / UN 38.3 Ethernet IEEE 802.3. IEEE 802.3u, IEEE 802.3x, IEEE 802.3az (Energy Efficie			fficient Ethernet EE	EE)		CE 🖏	RoHS 3 2015/865		
> Environmental s	pecifications								
Temperature									
Storage				-25 to +60°C					
Operating				-10 to +55°C	at 100% loa	id in norm	al and backup mode		
operating				-5 to +55°C a	it 100% load	l in batter	y charge mode		
Humidity									
Storage				relative hum	idity 10 to 9	5%			
Operating				relative hum	idity 20 to 9	5%			
Altitude									
Above 2,000 m, th	e maximum o	perating tempe	rature decreases b	oy 5% every 1,000) m				
Service life									
10 years at 25 °C pr	oduct external	environment, ra	ted mains voltage,	75% load					
> Electrical charac	teristics								
Network input	<u>^</u>			00 +- 205 14					
Voltage network A				98 t0 265 V A	98 to 265 V AC				
				140 to 375 V	14U TO 3/5 V DC				
Class				45 10 05 HZ					
Current					nt limited by				
Neutral systems					it infinited by	INIC			
Protection against				Drimary shor	t circuit and	l different	ial mode shock wayos		
Primary current	98 V AC			1 5 A		amerent			
Primary current	265 \/ AC			1.3 A					
Primary current @ 265 V AC				0.30 A	U.38 A				

SDC-M IP DATASHEET

Operating output	Operating output				
Rated voltage (U _n)	12 V DC 24 V DC				
Output current (I _n)	4.6 A		2.3 A		
Maximum output power		55 W			
Precision on voltage		1%			
Adjustment via HTTPS interface	-8% to +13%				
Power limitation	P _{max} to I	P _{max} +10% with outpu	ut voltage > 6 V		
Peak current		2 I _n for 0,012 sec	cond		
HF ripple peak-peak (20 MHz-50 Ω)		< 1.9% of U _n			
Effective LF ripple		< 0.3% of U _n			
Static and dynamic regulation characteristics	< 7% of U _n for cumulat	tive changes in secto	or and load (from 10% to 90%)		
Output (Smart Backup)	ŋ @ 20% loading	ŋ @ 75% loadi	ng ŋ @ 100% loading		
	85%	91%	90%		
> Functional characteristics					
Operates in power-saving mode when the backup is charged	ged.				
Remote controlled stealth mode.					
Filters disturbances of the electrical network.					
Fanless.					
Reboot function (start and stop automatically) available.					
Indicates the % of remaining autonomy.					
Parallel configuration without accessories for: power incl	rease / increase of the backup	o time / redundancy			
Disconnection of the backup via a pushbutton (reset).					
Smart backup					
SDC-M IP exists in 2 backup packs	3D		3G		
Latest generation LiFePO4 Lithium-ion Technology (no ris	k of thermal runaway).				
Lead-free, cadmium-free, 100% recyclable.					
Storage: 9 months without recharging.					
10 years service life.					
Advanced management settings, cell balancing, overload and overvoltage protection.					
Protection against deep discharge.					
A front panel pushbutton (on the board for BOX2) disconnects the backup via a static switch. The backup is automatically reconnected when mains voltage is present.					
Protections					
Against overvoltages on primary (atmospheric or industrial causes) by varistor and filter.					
Against surges in user output (connection error) by breaking with cyclical restart if output voltage > U_n +10%.					
Against overcurrent by limiting the power supply to P_n +10%.					
Against output short-circuits by disconnecting the power supply with cyclical restart.					

Backup duration according to output power				
	DIN1 12 V / 24 V BOX2 12 V / 24 V	DIN2 12 V / 24 V BOX2 12 V / 24 V		
	Backup 3D	Backup 3G		
Operating power	Autonomy expressed in hours and minutes			
5 W	2h54	11h38		
7 W	2h15	9h		
10 W	1h40	6h42		
15 W	1h10	4h40		
20 W	0h53	3h33		
25 W	0h43	2h52		
30 W	0h36	2h24		
35 W	0h31	2h04		
40 W	0h27	1h48		
45 W	0h24	1h37		
50 W	0h21	1h27		
55 W	0h19	1h19		

MMI

LED for status display and control (UPS DC Status)

Steady green	Flashing green	Slow flashing orange	Fast flashing orange	Red
Normal mode	ECO mode Stealth mode	Backup mode	Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - If no mains (outside speci- fied power supply range). End of backup imminent	UPS to be changed - If no output voltage - If power supply out of order (charger fault). Backup fault - Backup undervoltage. - Backup overvoltage

LEDs indicators for each Ethernet port status (Link/Act)

Steady green	Flashing Green
Connected	- Connected - Ethernet link status

Communication

2 ports 100 Mbps available to connect the DC Micro-UPS to Ethernet Network and remote information (serial number, system status), analog values monitoring (output voltage and current, % backup time, mains status, internal temperature), and parameters setup with on-board HTTPS website.

Auto MDI/MDI-X	yes		
MAC Adress	8,000 address		
Data Transfer Method	Store & Forward		
Data Transfer Rate	650 Mbps		
Frame size and delay (max)	1 518 octets / 126 μs		
Update program Upgrade via HTTPS web browser			
Supported Protocols: IPv4, HTTPS, TCP, UDP, ICMP, ARP, DHCP, SNMP V1 & V3, BACnet IP.			
> Product references			
Interpretation of the product reference designations: SDC-M [Voltage] [Backup] [Box] IP			

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DC Micro-UPS, with integrated backup function, with a very long service life.

DIN1





Built-in functions

- \sim Powers all PoE / PoE + equipment.
- \sim PoE 30 W budget.
- ∼ Integrated LiFePO4 backup, with a very long service life.
- \sim Configurable reboot function.
- \sim HTTPS / SNMP / BACnet IP open communication protocols.

Key product features

- \sim Ultra-compact & plug-and-play.
- \sim Performs self-diagnostic and that of its environment
- \sim 1 secured PoE output
- \sim Operates as IP power supply: Max. power on terminal 55 W

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-PoE			
SDC-POE 3D DIN1 P1	0,7 kg	100 x 124 x 82	83930933
SDC-POE 3G DIN2 P1	1,4 kg	100 x 124 x 122	83933933

> Mechanical characteristic	S					
Boxes	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation	
DIN1	100 x 124 x 82	0.68	Aluminium	IP20	DIN Rail	
DIN2	100 x 124 x 122	1.36	Aluminium	IP20	DIN Rail	
Connections						
	DIN1			DIN2		
 2 screw terminals with plug (Input 110 / 230 V AC, 1 ou 1 RJ45 port 100 Mbps. 1 PoE/PoE+ port 100 Mbps 	g-in connectors with polarizing slot. htput 55 V DC).					
Network cable: Ethernet cab	ole Cat 5 or more / shielded or unshiel	ded / straight or t	twisted			
> Standard-based specificat	ions					
EN 62368-1 / EN 61000-6-1 / EN 61000-6-3 / EN 61000-6-4 Ethernet IEEE 802.3, IEEE 802	EN 61000-6-2 / EN 61000-3-2 A class / EN 55032 class B / UN 38.3 / IEEE 802 .3u, IEEE 802.3x, IEEE 802.3az (Energy E	.3af/at ifficient Ethernet El	EE)	CE 😵	RoHS 3 2015/965	
> Environmental specification	ons					
Temperature						
Storage		-25 to +60°C				
Operating		-10 to +55°C at	100% load in normal	l and backup mode		
Operating		-5 to +55°C at 2	100% load in battery o	charge mode		
Humidity						
Storage		relative humid	ity 10 to 95%			
Operating		relative humid	ity 20 to 95%			
Altitude						
Above 2,000 m, the maximu	im operating temperature decreases b	oy 5% every 1,000	m			
Service life						
10 years at 25 °C product ex	ternal environment, rated mains volta	ige, 75% load				
> Electrical characteristics						
Network input						
Voltage network AC		98 to 265 V AC	:			
Voltage network DC		140 to 375 V DC				
Frequency		45 à 65 Hz				
Class		Class 1				
Current		Inrush current limited by NTC				
Neutral systems		TT, TN, IT				
Protection against	ection against primary short circuit and differential mode shock waves.					
Primary current @ 98 V AC		1.5 A				
Primary current @ 265 V AC		0.38 A				

SDC-POE DATASHEET

Operating output							
PoE technology	IEEE 802.3 af, IEEE 802.3 at,	PSE of type B					
Budget PoE on RJ45 port	30 W						
Maximum power on terminal block and PoE	55 W at 55 V						
	ŋ @ 20% loading	ŋ @ 75% dloading	ŋ @ 100% loading				
Output (Smart Backup)	85%	91%	90%				
> Functional characteristics	> Functional characteristics						
Operates in power-saving mode when the backup is cha	rged.						
On/Off function per port.							
Filters disturbances of the electrical network.							
Fanless.							
Reboot function (start and stop automatically) available							
Indicates the % of remaining autonomy.							
Parallel configuration without accessories for: power in	crease / increase of the backup	o time / redundancy.					
Disconnection of the backup via a pushbutton (reset).		· · ·					
Smart backup							
SDC-PoE is available in 2 backup packs	3D		3G				
Latest generation Lithium-ion LiFePO4 Technology (no ri	sk of thermal runaway).						
Lead-free, cadmium-free, 100% recyclable.							
Storage: 9 months without recharging.							
10 year service life.							
Advanced management settings, cell balancing, overload	d and overvoltage protection.						
A front panel pushbutton (on the board for BOX2) discon mains voltage is present.	nnects the backup via a static s	witch. The backup is autom	atically reconnected when				
Backup duration according to output power - 55 W (Type	e 3)						
	DIN1						
	DINI						
	and the second sec						
	Backup 3D	В	ackup 3G				
Operating power	Autonomy ex	pressed in hours and minute	es				
5 W	2h49		11h14				
7 W	2h11		8h46				
10 W	1h39		6h34				
15 W	1h09		4h36				
20 W	0h53		3h32				
25 W	0h43 2h51		2h51				
30 W	0h36		2n23				
35 W	0n31		2004				
40 W	0h27		1n48				
45 W	Uh24		11137				
50 W	0h22 1h27		1n2/				
55 W	Un20 1h19						

SDC-POE DATASHEET

Protections					
Against overvoltages on p	orimary (atmospheric or in	dustrial causes) by v	varistor a	and filter.	
Against surges in user out	tput (connection error) by	breaking with cyclic	al restar	t if output voltage > U _n +10%.	
Against overcurrent by lin	miting the power supply to	P _n +10%.			
Against output short circu	uits by disconnecting the n	nains by cyclical rest	tart.		
Against overcurrent and s	short-circuits by disconnec	ting the PoE port to	> I _n + 1	.0%.	
MMI					
LED for status display and	d control (UPS DC status).				
Steady green	Flashing green	Slow flashing or	ange	Fast flashing orange	Red
Normal mode	ECO mode Stealth mode	Backup mode		Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - If no mains (outside speci- fied power supply range). End of backup imminent	UPS to be changed - If no output voltage - If power supply out of order (charger fault). Backup fault - Backup undervoltage. - Backup overvoltage
LEDs to give the status of	the Ethernet port activity	(Link / Act)			
	Steady green			Flashing gr	een
Connection established		- Connection established - Activity on the Ethernet link			
LED to give the status of t	the PoE / PoE + power sup	ply			
	Steady orange			Off	
PoE active			- PoE in - PoE w	active aiting for a connection	
Communication					
2 ports 100 Mbps allow to connect the Micro UPS DC to an Ethernet network to check information remotely (product serial number, system status), to communicate analog values (voltage and operating current, % remaining backup, power supply status, internal temperature of the UPS DC) and to configure its settings via on-board HTTPS webserver.					
Auto MDI/MDI-X			yes		
MAC address table			8,000 address		
Transmission method		Store & Forward			
Transmission capacity 650		650 Mk	ops		
Frame size and latency (n	Frame size and latency (max) 1 518 octets / 126 µs				
Improved version of the micro program Upgrade via HTTPS web browser					
Protocols supported: IPv4, HTTPS, TCP, UDP, ICMP, ARP, DHCP, SNMP V1 & V3, BACnet IP.					
> Product references					
Interpretation of the product reference designations: SDC-POE [Backup] [Box] P1					

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Edge switch with 4 PoE+ ports,, backed up by integrated Micro-UPS SNMP / BACnet IP protocols

PoE / PoE+ (IEEE 802.3af/at)



4-port PoE+ switch, 15 min to 5h emergency function integrated, with very long service life





Built-in functions

- \sim Secures up to 4 PoE / PoE+ devices
- \sim PoE 55 W budget
- \sim 15 min to 5h integrated backup
- \sim Integrated LiFePO4 backup, with very long service life
- \sim Configurable reboot function for each port
- \sim HTTPS / SNMP / BACnet IP open communication protocols.

Key product features

- \sim Protects PoE equipment against any electrical disturbance, internal or external
- \sim Ultra-compact & plug-and-play
- \sim Performs self-diagnostic and that of its environment
- \sim Saves wiring
- \sim 4 protected Ethernet ports 100 Mbps / 1 protected Ethernet port 1 Gbps.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-PoE 4			
SDC-POE 3D BOX2 P4	1.0 kg	285 x 198 x 61	83930924
SDC-POE 3E BOX2 P4	1.3 kg	285 x 198 x 61	83931924

> Mechanical characteristic	5							
Boxes	Size W x H x D (mm)	Weight (kg)	Ma	terials	Protection	n rating	Installat	ion
BOX2	285 x 198 x 61	1.1 - 1.3	ļ	ABS	IP30)	Wall mounte Shelf placem	ed / f ent
Connections								
 1 power cable to be connected to the 110 / 230 V AC mains. 1 RJ45 port 1000 Mbps. 4 PoE/PoE+ ports 100 Mbps. 								
Network cable: Ethernet cal	ole Cat 5 or more / shielded or unshiel	lded / straight or t	twisted					
> Standard-based specificat	ions							
EN 62368-1 / EN 61000-6-1 / EN 61000-6-3 / EN 61000-6-4 Ethernet IEEE 802.3i, IEEE 802	EN 61000-6-2 / EN 61000-3-2 A class / EN 55032 class B / UN 38.3 / IEEE 802. 3u, IEEE 802.3x, IEEE 802.3az (Energy E	3af/at fficient Ethernet EE	EE)		CE	E)	RoHS 3 2015/865	X
> Environmental specification	ons							
Temperature								
Storage		-25 to +60°C						
Operating		-10 to +55°C at	100% loa	ad in normal	and backup	mode		
Operating		-5 to +55°C at 1	100% load	d in battery o	charge mode			
Humidity								
Storage		relative humidity 10 to 95%						
Operating		relative humidi	ity 20 to 9	95%				
Altitude								
Above 2,000 m, the maximu	m operating temperature decreases b	y 5% every 1,000	m					
Service life								
10 years at 25°C product ext	ernal environment, rated mains voltag	ge, 75% load						
> Electrical characteristics								
Network input								
Voltage AC network		98 to 265 V AC						
Voltage DC network		140 to 375 V DC						
Frequency		45 to 65 Hz						
Class		Class 1						
Current		Inrush current	limited b	y NTC				
Neutral systems		TT, TN, IT						
Protection against		primary short o	circuit and	d differentia	l mode shock	waves.		
Primary current @ 98 V AC		1.5 A						
Primary current @ 265 V AC	nt @ 265 V AC 0.38 A							
Operating output								
PoE technology		IEEE 802.3 af, IEEE 802.3 at, PSE of type B						
Budget PoE max per RJ45 pc	ort	30 W						
Iotal POE budget		55 W to 55 V						
ivianagement of port priority	ent of port priority no			0 0/ 10	na			
Output (Smart Backup)		85%	aung	ر در سرا 9:	1%	י <u>ן</u> ש 10	90%	יצ

SDC-POE 4 DATASHEET

> Functional characteristics		
Operates in power-saving mode when the back	up is charged.	
On/Off function per port.		
Filters disturbances of the electrical network.		
Without fan.		
Configurable reboot function (stops and restart	s automatically) on each port.	
Indicates the % of the remaining autonomy.		
Disconnection of the backup via a pushbutton (reset).	
Smart backup		
SDC-PoE4 is available in 2 backup packs	3D	3E
Latest generation Lithium-ion LiFePO4 Technolo	ogy (no risk of thermal runaway).	
Lead-free, cadmium-free, 100% recyclable.		
Storage: 9 months without recharging.		
10 year service life.		
Advanced management settings, cell balancing,	, overload and overvoltage protection.	
A push button on the board disconnects the ba The backup is automatically reconnected when	ckup via a static switch. mains voltage is present	
Protections		
Against overvoltages on primary (atmospheric o	or industrial causes) by varistor and filter.	
Against overvoltage on output terminals (contro exceeds U _n +10%	ol failure or cabling error) by disconnection and a	automatic restart when output voltage
Against overload by power limitation to P _n +10%	<i>.</i>	
Against short-circuits on output terminals by dis	sconnection with cyclical restart.	
Against overcurrent and short-circuits by discor	nnecting the PoE port at $I > I_n + 10\%$.	
Backup duration according to output power - 5	5 W (TYPE 3)	
	Dagkup 2D	Deckup 2E
Operating power	Autonomy expressed in	a hours and minutes
5 W	2h31	5h01
7 W	2h	4h
10 W	1h32	3h04
15 W	1h06	2h12
20 W	0h51	1h42
25 W	0h42	1h23
30 W	0h35	1h10
35 W	0h30	1h

0h27

0h24

0h21

0h20

40 W

45 W 50 W

55 W

0h53

0h47

0h43

0h39

MMI					
LED for status display and	d control (UPS DC status).				
Steady green	Flashing green	Slow flashing orange		Fast flashing orange	Red
Mode normal	ECO mode Stealth mode	Backup mode		Installation fault - Overcurrent, short circuit - Low voltage output (product overload). - Excessive power supply temperature - No mains (outside speci- fied power supply range). End of backup imminent	UPS to be changed - If no output voltage - If power supply out of order (charger fault). Backup fault - Backup undervoltage. - Backup overvoltage
LEDs to give the status of	the Ethernet port activity	(Link / Act)			
	Steady green			Flashing g	reen
Connection established			- Connection established - Activity on the Ethernet link		
LED to give the status of t	the PoE / PoE + power supp	oly			
	Steady orange		Off		
PoE active		PoE inactivePoE waiting for a connection			
Communication					
1 port 1,000 Mbps makes mation remotely (produc power status, internal ter	s it possible to connect the t serial number, system sta mperature of the UPS DC) a	end switch to the E atus), to communica and to configure its	thernet te analo settings	network (or for local diagnosis g values (voltage and load curr via the on-board HTTPS webse) in order to consult infor- ent, % of backup remaining, rver.
Auto MDI/MDI-X			yes		
MAC address table			8,000 entries		
Transmission method			Store & Forward		
Intern switch capacity		650 Mbps			
Frame size and latency (max)		1 518 octets / 126 μs			
Improved version of the r	micro program		Upgrad	e via HTTPS web browser	
Protocols supported: IPv4, HTTPS, TCP, UDP, ICMP, ARP, DHCP, SNMP V1 & V3, BACnet IP.					
> Product references					
Interpretation of the product reference designations: SDC-POE [Backup] BOX2 P4					
			*SLAT re	eserves the right to modify the characte	ristics of its products without prior notice



Managed 8 port HiPoE Switch + 2 optical fibers, full Gigabit layer 2 Secured by an integrated micro-UPS, secure protocols





SDC-PoE8 powers cameras, LPUs and systems. It ensures the access control and video stream security 24/7.



Built-in functions

- \sim Supplies power to up to 8 PoE/PoE+/HiPoE devices
- \sim Manages the data and video flow
- \sim Two independent optical fiber connections
- \sim Contains a micro-UPS
- \sim Eliminates micro-cuts and brown outs
- \sim Reboots automatically the monitored devices
- \sim One programmable dry contact output and input
- $\sim\! {\rm Web}$ server monitoring of the complete system and the connected devices

Key product features

- $\sim {\rm Many}$ security features to preserve all video and data flows
- $\sim\!$ Ensures the operation of the systems in case of vandalism
- \sim Prevents interventions to reset cameras
- \sim Operates for 10 years without maintenance
- \sim Maintains applications operational 24/7
- \sim Saves space and implementation time

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-PoE 8			
SDC-POE 5F DIN4 8P2F	2.2	215 x 138 x 148	83952145

SNMP / BACnet IP communication

SDC-PoE8 is a PoE/PoE+/HiPoE managed layer 2 switch, with a built-in micro-UPS function (LiFePO4 battery). With 10 full-Gigabit ports including 4 HiPoE, 4 PoE+ and 2 SFP for fiber links, the switch interconnects and supplies equipments, such as cameras, recorders, alarm panels, etc... It manages data or video flows and monitors the proper functioning of the devices. In the event of a power failure, it ensures service continuity and maintains operation of the equipments powered by PoE.

> Mechanical characteristics Boxes Size W x H x D (mm) Weight (kg) Materials Protection rating Installation DIN 4 215 x 138 x 131 Aluminium IP20 DIN rail 2.2 (without connectors) Connections Mains Screw terminal with plug-in connector with polarizing slot Ethernet cable Category 5e or more (PoE/PoE+)/ Category 6a or more (HiPoE) **PoE ports** 8 RJ45 ports shielded, straight or twisted cables **SFP** ports 2 SFP ports SFP module 1000 Mbps transceiver Digital Input/ Dry Screw terminal with plug-in connector with polarizing slot Contact > PoE 4 Ports, End-span cabling (Mode A) PoE/PoE+/HiPoE Ports IEEE 802.3af/at/bt - 15 W / 30 W / 60 W / 90 W per port 4 Ports, End-span cabling (Mode A) **PoE/PoE+ Ports** IEEE 802.3af/at - 15 W / 30 W per port Power PoE function configuration per port PoE budget 180 W > Communication PoE ports 10 / 100 / 1000 Mbps **Communication speed** 100 / 1000 Mbps SFP ports Application layer protocols HTTPS, BACnet IP, SNMP (v1, v2c, v3), DHCP Network layer protocols IPv4, ICMP > Switch properties 8 **Priority Queues** Max. Number of VLANs 4094 VLAN ID Range VID 1 to 4094 1024 **IGMP Groups MAC Table Size** Up to 8K MAC addresses Jumbo Frame Size 9.6 KB Performance Capacity of the forwarding rate in Millions of Packets per Second 14.88 Mpps (Mpps) (64-byte packets) Switching Capacity in Gigabits per Second (Gbps) 20 Gbps

SDC-PoE 8 DATASHEET

> Switching characteristics	
Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree (STP) IEEE 802.1D
Spanning free Profocol (STP)	Rapid Spanning Tree (RSTP) IEEE 802.1w
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 5 groups, up to 8 ports per group
VLAN	Supports up to 4K VLANs simultaneously (out of 4094 VLAN IDs); Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 1024 multicast groups (source-specific multicasting is also supported)
Security	
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast or unicast storm on a port
ACLs	Supports for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag
Quality of Service	
Hardware Priority Queue	Supports 8 hardware queues
Scheduling	Strict priority and weighted round-robin (WRR)
	Queue assignment based on DSCP and class of service (802.1p/ CoS)
Classification	Port based; 802.1p VLAN priority based; IPv4 precedence/ type of service (ToS) / DSCP based
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based
Management (Web/SSL, SNMP, BACnet)	
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTPS). Supports configuration, system dashboard, maintenance and monitoring.
Firmware upgrade	Web browser upgrade (HTTPS)
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to a single destination port. A single session is supported.
Other management	Single IP management; HTTPS; RADIUS; DHCP Client; SNTP; cable diagnostics
Green Ethernet	
Link detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up.
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.
Eco Mode	Shifts automatically to power-saving mode.
Discovery	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities and neighbors on a IEEE 802 local area network, principally wired Ethernet.
The configuration of the switch functions is done v	ia the embedded website.

> Signaling i Lib for the Took Load' level on the front panel i Lib for the product 'Status' on the front panel i Lib for the product 'Status' on the front panel i Lib for the product 'Status' on the front panel i Lib indicate the Pia activity on the corresponding port (green) i Lib indicate the Asia transitios and exity on the corresponding port (wellow) > Environmental specifications i temperature Soroage 2-55°460°C at 100% load: -10°C455°C opereding 2-55°460°C at 100% load: -10°C455°C opereding 2-50°C Humidity Soroage 2-50°C Humidity Soroage 2-50°C Humidity Soroage 2-50°C Humidity Soroage 2-50°C Humidity 20%90% Coopereding 3-50°C Humidity 20%90% Coopereding 3-50°C Humidity 20%90% Coopereding 3-50°C Humidity 20%95% Attrade Attrad				
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Primary current @ 195 V 1.85 A Primary current @ 265 V 1.70 A Functional characteristics 0 Operates in power-saving mode when the backup is charged. 0 On/Off function per POE port. Filters disturbances of the electrical network. Fan-cooling. Configurable reboot function (stop and restart automatically) on each POE-port. Indicates the % of the remaining autonomy. Protections Against overload by power limitation to Pn+10%. Against overcurrent and short-circuits on the output by disconnecting the POE port at I > In + 10%. Smart backup SpC-PoE8 is available with the backup pack SF Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Protection against	nimary chart-circuit and differential mode chock waves		
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Functional characteristics Operates in power-saving mode when the backup is charged. On/Off function per PoE port. Filters disturbances of the electrical network. Fan-cooling. Configurable reboot function (stop and restart automatically) on each PoE-port. Indicates the % of the remaining autonomy. Protections Against surge and overvoltage on primary (Lightning or industrial origins). Against overload by power limitation to Pn+10%. Smart backup SDC-PoE8 is available with the backup pack 5F Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Primary current @ 265 V	170 A		
Operates in power-saving mode when the backup is charged. On/Off function per PoE port. Filters disturbances of the electrical network. Fan-cooling. Configurable reboot function (stop and restart automatically) on each PoE-port. Indicates the % of the remaining autonomy. Protections Against surge and overvoltage on primary (Lightning or industrial origins). Against overload by power limitation to Pn+10%. Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > In + 10%. Smart backup SDC-PoE8 is available with the backup pack SF Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Functional characteristics	1.707		
On/Off function per PoE port. Filters disturbances of the electrical network. Fan-cooling. Configurable reboot function (stop and restart automatically) on each PoE-port. Indicates the % of the remaining autonomy. Protections Against surge and overvoltage on primary (Lightning or industrial origins). Against overload by power limitation to Pn+10%. Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > In + 10%. Smart backup SDC-PoE8 is available with the backup pack SF Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Operates in power-saving mode when the backup is charged			
Filters disturbances of the electrical network. Fan-cooling. Configurable reboot function (stop and restart automatically) on each PoE-port. Indicates the % of the remaining autonomy. Protections Against surge and overvoltage on primary (Lightning or industrial origins). Against overload by power limitation to Pn+10%. Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > In + 10%. Smart backup 5F Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	On/Off function per PoE port			
Fan-cooling. Configurable reboot function (stop and restart automatically) on each PoE-port. Indicates the % of the remaining autonomy. Protections Against surge and overvoltage on primary (Lightning or industrial origins). Against overload by power limitation to Pn+10%. Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > In + 10%. Smart backup SDC-PoE8 is available with the backup pack 5F Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Filters disturbances of the electrical network.			
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Indicates the % of the remaining autonomy. Protections Against surge and overvoltage on primary (Lightning or industrial origins). Against overload by power limitation to Pn+10%. Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > In + 10%. Smart backup SDC-PoE8 is available with the backup pack 5F Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Configurable reboot function (stop and restart automatically) on each PoE-	port.		
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Smart backup SDC-PoE8 is available with the backup pack 5F Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). 5F Lead-free, cadmium-free, 100% recyclable. 5F Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection. 5F	Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > In + 10%.			
SDC-PoE8 is available with the backup pack 5F Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). 10 year service life. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection. 5F	Smart backup			
Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway). Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	SDC-PoE8 is available with the backup pack	5F		
Lead-free, cadmium-free, 100% recyclable. Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runa	way).		
Storage: 9 months without recharging. 10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Lead-free, cadmium-free, 100% recyclable.			
10 year service life. Advanced management settings, cell balancing, overload and overvoltage protection.	Storage: 9 months without recharging.			
Advanced management settings, cell balancing, overload and overvoltage protection.	10 year service life.			
	Advanced management settings, cell balancing, overload and overvoltage	protection.		

SDC-PoE 8 DATASHEET

Backup duration according to output power			
	Backup F		
Operating power	Autonomy expressed in hours and minutes		
10 W	2h07		
20 W	1h29		
30 W	1h09		
40 W	0h55		
50 W	0h46		
60 W	0h40		
70 W	0631		
90 W	0628		
100 W	0h25		
110 W	0h23		
120 W	0h21		
130 W	0h20		
140 W	0h18		
150 W	0h17		
160 W	0h16		
170 W	0h15		
180 W	0h14		
> Standards			
IEEE Standards			
IEEE 802.1D	Standard Spanning Tree / Multicast		
IEEE 802.1w	Rapid Spanning Tree (RSTP)		
IEEE 802.1Q	VLAN		
IEEE 802.1X	Radius		
IEEE 802.3ad	Link Aggregation Control Protocol (LACP)		
IEEE 802.3i	10BaseT		
IFFE 802.3u	100BaseT(X) and 100BaseFX		
IFFE 802 3ab	1000BaseT(X)		
IFFE 802 37	1000BaseX		
	Elow Control		
IEEE 802.3bf			
IEEE 802.3az	Energy Efficient Ethernet		
Electrical standards			
Safety	EN 62368-1 (2014)		
EMC - Immunity	EN 61000-6-1 (2007), EN 61000-6-2 (2006)		
	EN 61000-6-3 (2007), EN 61000-6-4 (2007) + A1 (2011)		
EMC - Emissions	EN 61000-3-2 (2006) (class A)		
	EN 55032 (2015) (class B)		
Security standards			
Transportation security	UN 38.3		
> Product references			
SDC-POE 5F DIN4 8P2F			
Available on www.clat.com and in the SLAT catale	ag.		

Available on www.slat.com and in the SLAT catalog.

 $\ensuremath{^*\text{SLAT}}$ reserves the right to modify the characteristics of its products without prior notice.

SDC-Poe 24 Layer 2 switch for access control and video surveillance PoE / PoE+ (IEEE 802.3af/at)



24 port full Gigabit managed PoE / PoE+ switch, secured by an integrated micro-UPS. Secure protocols.

SDC-PoE24 powers systems, LPUs and cameras, ensures the access and video stream security 24/7.





Build-in functions

- \sim Supplies power to up to 22 PoE / PoE+ devices
- \sim Manages the data and video flows
- \sim Allows connections by optical fiber
- \sim Contains a micro-UPS
- \sim Eliminates line disturbances
- \sim Reboots automatically the monitored devices

Key product features

- \sim Many security features to preserve all data flow
- \sim Guarantees the operation of the systems in case of vandalism
- \sim Prevents interventions to reset cameras
- \sim Lithium backup; 10 years without maintenance
- \sim Maintains applications operational 24/7

Main software specifications

- Layer 2 management: VLAN, Spanning Tree, STP, RSTP, Loop Protection, Aggregation, Mirroring, QoS, LLDP, 802.1x, IGMP Snooping, DHCP Snooping, Port Security, ARP, ACL, and more...
- \sim Device Activity Monitoring
- \sim Green Ethernet
- \sim Secure management with HTTPS and SNMP V3
- ∼Jumbo Frames 9.6 kilobytes

Main hardware specifications

- ∽ 20 Ethernet ports (PoE/PoE+) 10/100/1000 Mbps
- \sim 2 SFP ports 100/1000 Mbps
- \sim 2 combo ports (Ethernet/SFP)
- \sim PoE budget 210 W
- \sim Li-ion battery, 72 Wh or 144 Wh
- ∼ 2U metal rack: W446 x H85 x D380 [mm]
- \sim IP30
- \sim Weight, depending on the model: 7 kg or 7.7 kg

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-Poe 24			
SDC-POE 6F RK2 P24	7.0 kg	446 x 85 x 380	83962307
SDC-POE 6J RK2 P24	7.7 kg	446 x 85 x 380	83965307

SDC-POE 24 DATASHEET

SNMP / BACnet IP communication

SDC-PoE24 is a PoE / PoE + managed layer 2+ switch, with built-in micro-UPS function (Li-ion battery). With 24 full-Gigabit ports including 4 SFP ports for fiber links, the switch interconnects and supplies equipments, such as cameras, recorders, alarm panels, etc. It manages data or video flows and monitors the proper functioning of the devices. In the event of a power failure, it ensures service continuity, and maintains operation of the equipments powered by PoE / PoE +.

> Mechanical characteristics	> Mechanical characteristics							
Boxes	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation			
Rack 2U	446 x 85 x 380 (without connectors)	7 - 7.7	Painted metal	IP30	Rack / Shelf placement			
Connections								
Mains	IEC connector							
PoE ports	20 RJ45 ports	Ethernet cable	e Cat 5 or more / s	hielded / straight or twiste	ed cables			
SFP ports	2 SFP ports	SFP module 1000 Mbps transceiver						
Combo ports	2 Combo ports PoE/SFP							
> Switch properties								
Priority Queues		8						
Max. Number of VLANs		4094						
VLAN ID Range		VID 1 to 4094						
IGMP Groups		1024						
MAC Table Size		Up to 8K MAC addr	esses					
Jumbo Frame Size		9.6 КВ						
Performance								
Capacity of the forwarding rate in Millions of Packets per Second (Mpps) (64-byte packets)		38.69 Mpps						
Switching Capacity in Gigabits p	er Second (Gbps)	52 Gbps						
> Switching characteristics								
Layer 2 Switching								
Spapping Tree Drotocol (STD)		Standard Spanning	Tree 802.1d					
		Rapid Spanning Tree (RSTP) 802.1w						
Aggregation		Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 12 groups ; Up to 16 ports per group						
VLAN		Supports up to 4K VLANs simultaneously (out of 4094 VLAN IDs) ; Port-based VLAN; 802.1Q tag-based VLAN						
IGMP v1/v2 Snooping		IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 1024 multicast groups (source-specific multicasting is also supported)						
Security								
Secure Sockets Layer (SSL), HTTPS		SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch						
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses							
IP Source Guard (IPSG)		Prevents datagram	with spoofed add	resses from being in the n	etwork			
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast or unicast storm on a port							
ACLs		Supports for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag						

> Switching characteristics					
Ouality of Service					
Hardware Priority Queue	Supports 8 hardware queues				
	Strict priority and weighted ro	ound-robin (WRI	R)		
Scheduling	Queue assignment based on I	DSCP and class c	of service (802.	1p/ CoS)	
Classification	Port based; 802.1p VLAN priori	ty based; IPv4 pr	ecedence/ type	e of service (ToS) / DSCP based	
Rate Limiting	Ingress policer; egress shaping	g and rate contr	ol; per VLAN, p	er port and flow based	
Management (Web/SSL, SNMP, BACnet)					
Web GUI interface	Built-in switch configuration u Supports configuration, system	itility for browse n dashboard, m	er-based device aintenance and	configuration (HTTPS). d monitoring.	
Firmware upgrade	Web browser upgrade (HTTPS	5)			
Port Mirroring	Traffic on a port can be mirror or RMON probe. Up to N-1 (N destination port. A single sess	red to another p is Switch's Port ion is supported	oort for analysis s) ports can be d.	with a network analyzer mirrored to a single	
Other management	Single IP management; HTTPS	; RADIUS; DHCP	Client; SNTP;	cable diagnostics	
Green Ethernet					
Link Detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up.				
Cable length D etection	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.				
Eco Mode	Shifts automatically to power-	-saving mode.			
Discovery					
Link Layer Discovery Protocol (LLDP)	Used by network devices for a IEEE 802 local area network, p	advertising their principally wired	r identities, cap I Ethernet.	abilities and neighbors on a	
The configuration of the switch functions is done via the	embedded website.				
> PoE					
PoE Ports	22 ports support PoE Power P	in Type: End-sp	an (Mode A)		
PoE standard	IEEE 802.3af/at				
	15 W / 30 W per port				
Power	Per port PoE function configu	ration			
PoE budget	210 W				
Output (Smart Backup)	η @ 25% loading	η @ 75% loading		η @ 100% loading	
	90.60%	94.5	0%	94.60%	
> Minimum requirements					
Web browser	Mozilla Firefox version 2.5 or	later, Microsoft	Internet Explor	er version 6 or later	
Network cable	Ethernet cable Cat 5e or more	e / shielded or u	nshielded / stra	aight or twisted	
Rack mounting	Rail to place the product in th	e bay			
> Communication					
Communication speed	PoE ports		10 / 100 / 100	0 Mbps	
	SFP ports		100 / 1000 Mb	ips	
	Combo ports		either 10 / 100 or 100 / 1000) / 1000 Mbps (PoE) Mbps (SFP)	
Application layer protocols	HTTPS, BACnet IP, SNMP, DHC	Р			
Network layer protocols	IPv4, ICMP				

SDC-POE 24 DATASHEET

> Signaling					
1 LED for the "PoE Load" level on the front panel					
1 LED for the product "Status" on the front panel					
22 LEDs indicate the PoE activity of each port on the front panel					
22 LEDs indicate the data transmission activity on the corresponding port in	n 100 Mbps (yellow)				
22 LEDs indicate the data transmission activity on the corresponding port in	n 1 Gbps (green)				
> Environmental specifications					
Temperature					
Storage	-25°C +60°C				
	at 100% load: -10°C +45°C				
Operating	at 75% load: -10°C +50°C				
Humidity					
Storage	relative humidity 10% to 90%				
Operating	relative humidity 20% to 85%				
Altidude					
Above 2,000 m, the temperature decreases by 5% every 1,000 m.					
Cooling					
The cooling in carried out transversally.					
Service life					
10 years at 25°C product external environment, rated mains voltage, 75% l	oad				
> Electrical characteristics					
Network Input					
AC network voltage	195 to 265 V AC				
Frequency	45 to 65 Hz				
Class	Class 1				
Inrush current	Limited by NTC				
Neutral system	TT, TN, IT				
Protection against	primary short-circuit and differential	mode shock waves			
Primary current @ 195 V	2 A				
Primary current @ 265 V	2 A				
Functional characteristics					
Operates in power-saving mode when the backup is charged.					
On/Off function per PoE port.					
Filters disturbances of the electrical network.					
Fan-cooling.					
Configurable reboot function (stop and restart automatically) on each PoE-port.					
Indicates the % of the remaining autonomy.					
Protections					
Against surge and overvoltage on primary (Lightning or industrial origins).					
Against overload by power limitation to P.+10%.					
Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > I_ + 10%.					
Smart Backup					
SDC-PoE24 is available in 2 backup packs	6F	61			
Latest generation Lithium-ion LiFePOA Technology (no risk of thermal rupaway)					
Lead-free cadmium-free 100% recyclable					
Storage: 9 months without recharging					
10 year service life.					
Advanced management settings, cell balancing, overload and overvoltage r	protection.				
duvanced management settings, cen balancing, overload and overvoltage protection.					

SDC-POE 24 DATASHEET

	Backup 6F	Backup 6J
Operating power	Autonomy expressed	in hours and minutes
10 W	1h35	3h10
20 W	1h12	2h24
30 W	0h58	1h56
40 W	0h48	1h37
50 W	0h41	1h23
60 W	0h36	1h13
70 W	0h32	1h04
80 W	0h29	0h58
90 W	0h26	0h52
100 W	0h24	0h48
110 W	0h22	0h44
120 W	0h20	0h41
130 W	0h19	0h38
140 W	0h17	0h35
150 W	0h16	0h33
160 W	0h15	0h31
170 W	0h14	0h29
180 W	0h14	0h28
190 W	0h13	0h27
200 W	0h12	0h25
210 W	0h12	0h24

> Standards

IEEE standards	
IEEE 802.1D	Standard Spanning Tree / Multicast
IEEE 802.1W	Rapid Spanning Tree (RSTP)
IEEE 802.1Q	VLAN
IEEE 802.1X	Radius
IEEE 802.3AD	Link Aggregation Control Protocol (LACP)
IEEE 802.3I	10BaseT
IEEE 802.3u	100BaseT(X) and 100BaseFX
IEEE 802.3ab	1000BaseT(X)
IEEE 802.3z	1000BaseX
IEEE 802.3x	Flow Control
IEEE 802.3af	PoE
IEEE 802.3at	PoE+
IEEE 802.3az	Energy Efficient Ethernet
Electrical standards	
Safety	EN 62368-1 (2014)
EMC - Immunity	EN 61000-6-1 (2007), EN 61000-6-2 (2006)
	EN 61000-6-3 (2007), EN 61000-6-4 (2007) + A1 (2011)
EMC - Emissions	EN 61000-3-2 (2006) (class A)
	EN 55032 (2015) (class A)
Security	
Transportation security	UN 38.3
> Product references	
Interpretation of the product reference designations: SDC-POE [Backup] RI	K2 P24

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EMERGENCY SYSTEMS AND MEDICAL APPLIANCES

TAKE ADVANTAGE OF YOUR APPLICATIONS WITH COMPLETE PEACE OF MIND USING SLAT SOLUTIONS



With the COVID-19 health crisis that we have been through, more than ever, the efficiency of medical teams is a necessity. It depends to a large extent on the technical means at their disposal to enable the appropriate response to each case at the appropriate time. The operational continuity of these resources sometimes depends on human lives, but always on the serenity of the medical staff who must face all situations.

SLAT provides reliable solutions that allow the permanent operation of the resources at your disposal.

In the same way, HV/ LV transformer stations and switchboards supplying hospitals and large industries rely on the power supply of the switching devices. SLAT power supplies have been designed for this requirement without compromise.

SELECTION GUIDE

	SANTE	ENE	RGO		SDC-PoE				
Application	Nurse call and other medical systems	MV/LV su Con	ubstation trol		Multi-Application				
Standard	EN 61046	NF C1	3-100		-		-		
DC output voltage	24 V	24 V	48 V	12 V	24 V	48 V	-		
Current / Power	4 A / 8 A / 12 A / 16 A / 24 A	6 A /	12 A	6 A / 12 A / 24 A / 32 A	6 A / 12 A / 24 A 3 A / 6 A / 12 A / 3 A /		55 W		
Number of terminal outputs	5	2,	/ 4	2			1		
PoE/PoE+ ports	-		-		1				
Ethernet ports	-		-		1				
Format	Box	В	хс		Card				
Battery technology	Lead	Lead	Lead or Lithium		Lead				
Battery control/ protection batterie	Yes	Ye	ËS		Yes				
Battery capacity	7 Ah 12 Ah 24 Ah 65 Ah	7 / 14 24	Ah Ah Ah	Compatible with batteries up to 240 Ah	Compatible with batteries up to 180 Ah	Compatible with batteries up to 90 Ah	D G		
Page	102-105	112-	-115		106-109		81-84		

*with option





Emergency power supplies with batteries – Medical and emergency systems

24 V DC



Complies with Standard EN 61046

Communication by LED on the front panel • Dry Contact

The SANTE emergency power supplies with batteries provide permanent and backup power for medical and emergency system installations.

C24







Main functions

- \sim Resists short-circuits on load outlets
- \sim Controls and reports operating status
- \sim Monitors battery presence
- \sim Protects the battery at end of discharge.

Benefits of the SANTE range

- \sim 5 independent fuse-protected load outlets
- \sim Dimensioned to operate 24/7 at rated power
- \sim Built-in lightning protection
- \sim The installation is available as soon as the mains returns.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SANTE 24V			
SANTE 24V 4A C24 AB 7 AH	8.0 kg	322 x 248 x 126	3040424007
SANTE 24V 8A C48 AB 12AH	16.0 kg	425 x 345 x 120	3040848012
SANTE 24V 8A C48 AB 24 AH	29.0 kg	425 x 345 x 120	3040848024
SANTE 24V 12A C48 AB 24 AH	29.0 kg	425 x 345 x 120	3041248024
SANTE 24V 16A C48 AB 24 AH	29.0 kg	425 x 345 x 120	3041648024
SANTE 24V 24A C180 AB 65AH	68.0 kg	505 x 610 x 430	3042418065

SANTE DATASHEET

> Ratings								
	75 W	100 W	150 W	200 W	/ 30	0 W 0	400 W	600 W
24 V DC	3 A	4 A	6 A	8 A	1	2 A	16 A	24 A
The currents (I_n) shown are at rated ou	tput power							
> Standarts-based specifications								
Safety	EN 62368-1							
EMC - Immunity	EN 61000-6-1	• EN 61000-	6-2					
EMC - Emission	EN 61000-3-2	• EN 61000-	6-3 • EN 61000-6	5-4 • EN 55	5032 class B	8		
Specific	EN 61046							
Environment	This product r	This product range is environmental policy ISO 14001, RoHS et WEEE.						
> Environmental specifications								
Humidity	During storage: relative humidity 10% to 95% (non-condensing) In operation: relative humidity 20% to 95% (non-condensing)							
Storage temperature	-25°C à +85°C							
	Power		75 W - 100 W		150 W - 600 W		W	
Operating temperature	75% of load		-5°C to +50°C		-5°C to +50°C			
	100% of load -5°C to +50°C -5°C to +40°C					°C		
Altitude	Above 2,000 m, the temperature decreases by 5% every 1,000 m							
Working life	50,000) h at 25°C (e	kternal environm	ent) and 7	'5% of load,	, product in	stalled in a c	abinet
> Input specifications								
Voltages			230 V A	C +/- 15%	single-phas	e		
Frequency				45 to 65	Hz			
Neutral system				TT - TN ·	- IT			
Switch-on current				limited by	CTN			
Upstream circuit breaker required			I	Bipolar D (Curve			
Class				I Class	5			
	75 W	100 W	150 W	200 W	/ 30	0 W 0	400 W	600 W
Primary current @ 195 V	0.5 A	0.75 A	1 A	1.5 A	2	2 A	3 A	4 A
Converter	75 W	V	100 W - 150	W	200 W -	300 W	400 W	- 600 W
At 20% load	71%	,)	75%		849	%	8	35%
At rated load	85%		84%		909	%	9	91%
> Output specifications								
Rated voltage				24 V D	С			
Floating voltage (U _n) set at half-load and 25°C				27.2 V +/-	0.5%			
Short-circuit current limitation	l _n							

> For reliable output voltage	ge						
Protection against external aggressions	 Resistance to all types of external aggressions: Overvoltages encountered on the mains network (lightning, industrial, isolation fault on impedance-earthed neutral system). Short-circuit on the primary power supply by a slow blow fuse on the phase. Differential mode shock waves by varistor and fuse. Battery polarity inversions. Overvoltages on secondary. Overcurrents and short-circuits on secondary. The short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range). 						
Charger current limitation	 Output current limitation allows a charge cycle to be started with a discharged battery. Completely protects the product from short-circuits on the installation. Protection selectivity is ensured by fuses on each load output and the battery fuse. 						
High performance filtering and regulation	 Particularly efficient output voltage regulation Static regulation < 0.5% of U_n. Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (from 10% to 90%). Enhanced filtering that eliminates all parasites and reduces the ripple on the V DC output. Battery capacity preserved and the guarantee of optimum system operation. LF rms ripple < 0.2% of U_n HF ripple (20 MHz-50 Ω) < 4% of U_n. 						
> For the control of the em	ergency power source						
System control	 Monitoring of: The status of mains, battery and load fuses. Battery presence or absence. Battery voltage and its operating status. Mains voltage present in the correct operating range. 						
Battery charge management	 This function is essential for reaching the design life and to ensure optimum operation of the battery. The charge voltages are factory set for «sealed» recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. The charge features battery charge current limitation. The supply of power to the load takes priority over the battery charge. 						
 Automatic disconnection of the charge at end of discharge to preserve its future capacity. Prevents excessively deep discharge that can permanently downgrade performance (cut-off threshold 1.8 V/ cell +/- 0.5%). Battery backup A report is sent before disconnection. (Pre-cut-off alarm threshold 1.85 V/cell +/- 0.5%). During autonomous operation, up to the cut-off threshold, the design of the SLAT unit significantly limits the charger's own consumption on the battery. This allows your application to take full advantage of the battery's capacity. 							
> Charger consumption on	the battery in autonomous	mode					
	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W			
24 V DC	39 mA	75 mA	44 mA	106 mA			

SANTE DATASHEET

> For optimal communication						
Displaying and remote reporting of	 Mains: Presence indicated by a green LED. Remote reporting by dry contact with delay (failsafe). Charger: Correct operation indicated by a green LED. Charger fault if mains fuse is out of order or not present, or if product is out of order. Remote reporting by dry contact with delay (failsafe). Battery: Presence indicated by a green LED. Battery fault: 					
the information	 If battery is not present (test every 30 seconds for the 1st 20 minutes after the installation, then every 15 min) or if battery voltage < 1.85 V/cell in autonomous mode. Voltage of less than 1.85 V/cell indicated by flashing orange LED (autonomous mode). Remote reporting by dry contact with delay (failsafe). 					
On motherboard	 Internal signaling on the motherboard A LED on the motherboard indicates operational status before the cabinet is closed (display board not connected). Signals: All OK: green Mains fault: orange Battery or charger fault, or load not present: red (this fault takes priority over a mains fault). 					
> Connection specifications						
Screw terminal	75 W	100 W - 150 W	200 W - 300 W	400 W - 600 W		
Mains	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²		
Batteries	2.5 mm ²	6 mm²	6 mm²	10 mm²		
Load (2 outputs)	4 x 2.5 mm²	1 x 6mm² 3 x 2.5 mm²	1 x 6mm² 3 x 2.5 mm²	1 x 10mm² 5 x 2.5 mm²		
Alarm reports*	1.5 mm ²	1.5 mm²	1.5 mm²	1.5 mm²		
*the alarm report connector is unplugg	able - Dry contacts, 1 A @ .	24 V DC, 0.5 @ 120 V AC.				
> Cabinet characteristics						
Version	Size W x H x D (mm)	IP	Base	Cover		
C24	322 x 248 x 126	IP30	Metal, RAL 9006	ABS RAL 9003		
C48	425 x 345 x 120	IP30	Metal, RAL 9006	Metal, RAL 7035		
C180	505 x 610 x 430	IP31	Metal, RAL 7035	Metal, RAL 7035		
> Types of battery cabinets						
Version	Тур	be	24	٠V		
C24	Wall-mo	ounted	7 Ah,	12 Ah		
C48	Wall-mo	ounted	7 Ah, : 24 Ah (4	12 Ah, x 12 Ah)		
C180	Floor-m	ounted	65 Ah, 80 A 130 Ah,	\h, 120 Ah, 170 Ah		
SLAT can change specifications on his products without prior	notice.					





Communication via dry contact

FIT'IN emergency power supplies provide permanent and backup power for all installations.







Main functions

- \sim Card protection, DIN rail mounting.
- \sim Battery charger function.
- \sim Resists short-circuits on load outlets.
- \sim The installation resumes as soon as the mains returns.

Benefits of the FIT'IN range

- \sim Two independent fuse-protected load outlets.
- \sim Dimensioned to operate 24/7 at rated power.
- \sim Built-in lightning protection.
- \sim Fits easily into an enclosure or cabinet.
- \sim Inaudible.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE	PACK
FIT'IN 12V				
FITIN 12V 6A CG1	0,5 kg	130 x 104 x 41	1520601000	-
FITIN 12V 6A CG1 Q16	0,5 kg	130 x 104 x 41	1520613000	16
FITIN 12V 12A CG2	1,0 kg	125 x 177 x 68	1521202000	-
FITIN 12V 12A CG2 Q16	1,0 kg	125 x 177 x 68	1521214000	16
FITIN 12V 24A CG3	2,2 kg	182 x 231 x 73	1522403000	-
FITIN 12V 24A CG3 Q8	2,2 kg	182 x 231 x 73	1522415000	8
FITIN 12V 32A CG4	3,5 kg	215 x 265 x 77	1523204000	-
FIT'IN 24V				
FITIN 24V 3A CG1	0,5 kg	130 x 104 x 41	1540301000	-
FITIN 24V 3A CG1 Q16	0,5 kg	130 x 104 x 41	1540313000	16
FITIN 24V 6A CG2	1,0 kg	125 x 177 x 68	1540602000	-
FITIN 24V 6A CG2 Q16	1,0 kg	125 x 177 x 68	1540614000	16
FITIN 24V 12A CG3	2,2 kg	182 x 231 x 73	1541203000	-
FITIN 24V 12A CG3 Q8	2,2 kg	182 x 231 x 73	1541215000	8
FITIN 24V 24A CG4	3,5 kg	215 x 265 x 77	1542404000	-
FITIN 24V 24A CG4 Q4	3,5 kg	215 x 265 x 77	1542416000	4
FIT'IП чвv				
FITIN 48V 3A CG2	1,0 kg	125 x 177 x 68	1580302000	-
FITIN 48V 3A CG2 Q16	1,0 kg	125 x 177 x 68	1580314000	16
FITIN 48V 6A CG3	2,2 kg	182 x 231 x 73	1580603000	-
FITIN 48V 6A CG3 Q8	2,2 kg	182 x 231 x 73	1580615000	8
FITIN 48V 12A CG4	3,5 kg	215 x 265 x 77	1581204000	-
FITIN 48V 12A CG4 Q4	3,5 kg	215 x 265 x 77	1581216000	4

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FIT'IN DATASHEET

> Ratings							
	75 W	150 W	I	300 W		600 W	
12 VDC	6 A	12 A		24 A		32 A	
24 VDC	3 A	6 A		12 A		24 A	
48 VDC	-	3 A		6 A		12 A	
The currents (I _n) shown are at rated output power.							
> Standard-based specifications							
Safety	EN 62368-1						
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2						
EMC - Emissions	EN 61000-3-2 • EN 61000-6-3 • EN 61000-6-4 • EN 55032						
Environmental	This product range complies with the environmental policy (ISO 14001, RoHS and WEEE).						
> Environmental specifications							
Relative humidity	During storage: 10% to 95% non-condensing relative humidity During operation: 20% to 95% non-condensing relative humidity						
Storage temperature	-25°C to +85°C						
Operating temperature	Power		75 W		100 W - 600 W		
	75% of load		-5°C to +50°C		-5°C to +50°C		
	100% of load		-5°C to +50°C		-5°C to +40°C		
Altitude	Above 2,000 m, the maximum temperature decreases by 5% every 1,000 m						
Service life	50,000 h at 25°C (external environment) and 75% of load, product installed in a cabinet						
> Input characteristics							
Voltages	98 V AC to 264 V AC (115 V AC -15% to 230 V AC +15%) single-phase (300 W - 600 W) 195 V AC to 264 V AC (230 V AC +/-15%)single-phase (150 W)						
Frequency	45 to 65 Hz						
Neutral systems	TT - TN - IT						
Inrush current	limited by NTC						
Upstream circuit breaker required	Curve D						
Class	Class I						
	75 W	150 W	/	300 W		600 W	
Mains consumption @195 V	0.5 A	1 A		2 A		4 A	
Efficiency at 20% load	71%	75%	75% 84%			85%	
Efficiency at rated load	85%	84%	84% 90%			91%	
> Output characteristics							
Rated voltage	12 V DC	24 V		/ DC		48 V DC	
Floating voltage (U _n) set at half-load and at 25°C	13.6 V +/-0.5%		27.2 V +/-0.5%			54.4 V +/-0.5%	
Adjustment range in power supply mode only	12 V - 14 V		23 V - 29 V			46 V - 58 V	
Charger current limitation	From I _n to I _n +15%						

> For reliable output volta	ge						
	 Resistance to any type of external aggression: Overvoltages encountered on the mains network (lightning strikes, industrial environment, isolation fault) 						
	on impedance-earthed neutral system, etc.)						
Protection against exter- nal aggressions	• Short-circuit on the primary power supply primary by a slow blow fuse on the phase.						
	Differential mode shock waves by varistor and fuse. Inversions of battery polarity						
	Overvoltages on the secondary power supply.						
	Overcurrents and short-circuits on the secondary power supply.						
	 Short-circuits inside the product, protected by primary fuse. Increases in external temperatures (outside the specified range). 						
	- The output current limitation allows to start a charge cycle on an empty battery						
Charger current	Completely protects the product from short-circuits on the installation.						
	• The selectivity of the protection is ensured by the fuses on each output use and the battery fuse.						
	Particularly efficient output voltage regulation Static regulation < 0.5% of U						
	 Dynamic regulation < 5% of U_n for cumulative variations of the mains and the load (10% to 90%). 						
High performance	- Enchanced filtering that eliminates all parasites and reduces the ripple on the V DC output.						
	Battery capacity preserved and guarantee of optimum system operation.						
	• LF mis hpple < 0.2% of U_n . • HF ripple (20 MHz-50 Ω) < 4% of U_n .						
> For the control of the emergency power source							
	Monitoring of:						
	Status of mains, battery and load fuses.						
System control	Battery presence or absence. Battery voltage						
	Its operating status.						
	Mains voltage present in the correct operating range.						
	This function is essential for reaching the design life and to ensure optimum operation of the battery.						
Battery charge	 The charge voltages are factory adjusted for seared recombination-type lead acid batteries. They are consistent with the battery manufacturers' recommendations. 						
management	• The charger includes battery charge current limitation.						
	• The power supply to the load takes priority over the battery charge.						
	Automatic disconnection of the battery at the end of discharge to preserve its future capacity.						
	(cut-off threshold: 1.8V/cell).						
Battery backup	• A report is sent before disconnection (pre-cut-off alarm threshold: 1.85V/cell).						
	Very low internal consumption. This allows the application to take full advantage of the battery conscity.						
Inis allows the application to take full advantage of the battery capacity.							
		24 V DC	48 V DC				
75 W	32 mA	39 mA	-				
150 W	49 mA	75 mA	85 mA				
300 W	65 mA	44 mA	37 mA				
600 W	141 mA	106 mA	73 mA				
· · · · · · · · · · · · · · · · · · ·							
FIT'IN DATASHEET

> Communication				
Displaying and remote reporting of the information	 Internal signaling on mot A LED on the motherboard Signals: Everything OK: green Mains fault: orange Battery or charger fault, (this fault takes priority over - Mains fault: Remote reporting by mean Charger fault: A charger fault occurs if the Remote reporting by mean Battery fault occurs if the Remote reporting by mean Battery fault occurs if the Remote reporting by mean 	therboard: I indicates the operational , or load not present: red er a mains fault). Ins of a dry contact with tim e mains fuse is out of orde ns of a dry contact with tim e battery is not present or ns of a dry contact with tim	status. ne delay relay (fail-s er or not present, or ne delay relay (fail-s if voltage < 1.85 V/o ne delay relay (fail-s	afe). • if the unit is out of order. afe). cell in autonomous mode. afe).
> Connection specifications				
Screw terminal	75 W	150 W	300 W	600 W
Mains	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Batteries	2.5 mm ²	6 mm²	6 mm²	10 mm ²
Load (2 outputs)	2.5 mm ²	6 mm²	6 mm²	10 mm ²
Alarm report*	1.5 mm ²	1.5 mm ²	1.5 mm²	1.5 mm ²
*The alarm report connector can be unp	olugged			
> Boards characteristics				
Version	Dimensions W x H x D (mm)	Ва	ise	Cover
CG1	105 x 185 x 57	Me	etal	Grid
CG2	125 x 177 x 68	M	etal	Grid
CG3	182 x 231 x 73	M	etal	Grid
CG4	215 x 265 x 77	M	etal	Grid
SLAT can change specifications on his products without prior	notice			

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24 port full Gigabit managed PoE / PoE+ switch, secured by an integrated micro-UPS. Secure protocols.

SDC-PoE24 assures the medical infrastructures' reliability and guarantees all the benefits of your solutions.





Build-in functions

- \sim Provides the interface between the hospital staff's support equipment
- \sim Powers all the devices with PoE / PoE+
- \sim Guarantees continuity of service 24/7
- \sim Automatically reboots the surveillance equipment

Main software specifications

- Layer 2 management: VLAN, Spanning Tree, STP, RSTP, Loop Protection, Aggregation, Mirroring, QoS, LLDP, 802.1x, IGMP Snooping, DHCP Snooping, Port Security, ARP, ACL, and more...
- \sim Device Activity Monitoring
- \sim Green Ethernet
- \sim Secure HTTPS and SNMP V3 management
- \sim Jumbo Frames 9.6 kilobytes

Key product features

- \sim Improves the peace of mind of the medical teams
- \sim Transmits reliable and secure data
- Operational in a non-air conditioned environment, without maintenance
- \sim Filters all disturbances of electrical origin

Main hardware specifications

- \sim 20 Ethernet ports (PoE/PoE+) 10/100/1000 Mbps
- \sim 2 SFP ports 100/1000 Mbps
- \sim 2 combo ports (Ethernet/SFP)
- \sim PoE budget 210 W
- \sim Li-ion battery, 72 Wh or 144 Wh
- \sim 2U metal rack: W446 x H85 x D380 [mm]
- \sim IP30
- \sim Weight, depending on the model: 7 kg or 7.7 kg

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
SDC-Poe 24			
SDC-POE 6F RK2 P24	7.0 kg	446 x 85 x 380	83962307
SDC-POE 6J RK2 P24	7.7 kg	446 x 85 x 380	83965307

Datasheet on pages 95 to 97



YOUR ELECTRICITY SUPPLY MAY DEPEND ON THAT LITTLE EQUIPMENT !



In our lives today, we are no longer aware of how dependant we are from energy and the electrical network. Spending in Research and Development is increasing every year to improve and make our electrical grid more reliable, in a new discipline called Smart Grid.

For a reason: **lives are depending** on the electrical power supply when feeding a hospital and the safety of the workers is at stake when supplying an aluminium foundry or a car manufacturer.

The Energo product family has been designed to supply coils and motors of switchgears in HV/ LV transformer substations. They will **ensure a seamless operation** of the public grid stations as well as private feeder stations **for many years**.

The lithium version responds to applications demanding an outdoor climate such as Wind Farms and Solar Fields. The exceptional service life and temperature tolerance of our lithium battery technology, combined with unique **end-of-life prediction**, will drastically **reduce on-site maintenance operations**.



Medium Voltage switchgear / instrumentation and control

24 V DC • 48 V DC

Compliant with trade standard NF C13-100 April 2015

"Delivery sub-stations fed by HV public distribution network"

Communication via digital display • End-of-life prediction

The ENERGO UPS DC supplies standard and emergency power constantly to the high voltage switchgear, instrumentation and control, supply coils and motorisation of circuit breakers for medium voltage cells and the main low voltage switchboard.





Main functions

- \sim Ensures a continuous supply of power to the equipment.
- \sim Maintains a power reserve for restarting the systems by voluntary action.
- \sim Optimises battery charging and service life.
- \sim Anticipates and informs about the battery's end-of-life.
- \sim Guides operation and maintenance.
- \sim Allows local and remote control.
- \sim Cold start, facilitates commissioning.

Benefits of the ENERGO range

- \sim 2 independent, fuse protected load outputs or 4 circuit breakers distribution.
- \sim Configurable power reserve duration. Wind turbine function.
- \sim Backlit display with plaintext messages.
- \sim Cable inputs on all sides.
- \sim Redundancy box option for live work and high reliability.
- \sim Lithium technology models for outdoor use and renewable energies.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
ENERGO 24V			
ENERGO 24V 6A C85 7Ah	17.2 kg	408 x 408 x 224	3640685007
ENERGO 24V 12A C85 14Ah	23.2 kg	408 x 408 x 224	3641285014
ENERGO 24V 12A C85 24Ah	28.4 kg	408 x 408 x 224	3641285024
ENERGO 24V 12A C85 24Ah 4DJ	28.6 kg	408 x 408 x 224	3641286024
ENERCO 48V			
ENERGO 48V 6A C85 7Ah	22.0 kg	408 x 408 x 224	3680685007
ENERGO 48V 6A C85 14Ah	34.0 kg	408 x 408 x 224	3680685014
ENERGO 48V 12A C85 24Ah	44.9 kg	408 x 408 x 224	3681285024
ENERGO 48V 12A C85 24Ah 4DJ	45.3 kg	408 x 408 x 224	3681286024
ENERGO 48V LITHI	um		
ENERGO 48V 12A C85 LI	27.3 kg	408 x 408 x 224	3681285026

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ENERGO DATASHEET

> Ratings				
24 V DC	6 A (EQ A at peak)	$12 \wedge (E0 \wedge at pack)$		
48 V DC*	6 A (50 A at peak)	IZ A (SU A at peak)		
The currents I_n shown are at rated output power.				
*The Lithium model is only availab	le in 48 V DC.			
> Standard -based specifications				
Safety	EN 62368-1			
EMC - Immunity	EN 61000-6-2			
EMC - Emission	EN 61000-6-4 • EN 61000-3-2 • EN 55032 • EN 55024	4		
Trade	NFC 13-100 compliant			
Environment	This product range meets the environnmental require	ements of ISO 14001, RoHS and WEEE standards.		
> Environmental specifications				
Humidity	during storage : relative humidity of 10% to 95% non-condensing in operation : relative humidity of 20% to 95% non-condensing			
Storage temperature	-25°C to +85°C			
Operating temperature	75% of load	-5°C to +50°C		
Operating temperature	100% of load	-5°C to +40°C		
Altitude	Above 2,000 m, the maximum temperature is lowered by 5% every 1,000 m			
Service life 200,000 h at 25°C external ambient temperature				
> Input characteristics				
Voltage	98 to 20	65 V AC		
Frequency	47 to	65 Hz		
Neutral system	TT - TN - IT			
Inrush current	limited by NTC			
Upstream circuit breaker required	D Cu	ırve		
Class	Clas	ss 1		
	Charger 300 W	Charger 600 W		
Mains consumption @ 98 V	4 A	8 A		
Mains consumption @ 265 V	2 A	4 A		
> Efficiency				
At 20% load	84	1%		
At nominal load	90	9%		
> Output characteristics				
Nominal voltage	24 V DC	48 V DC		
Floating voltage (U _n) adjusted to half load and 25°C	27.2 V +/-0.5%	54.4 V +/-0.5%		
Charger current limitation	I _n : 6 A to 12 A dep	pending on model		
> Charger consumption on battery	/ in stand-alone mode			
	24 V DC	48 V DC		
300 W	94 mA	37 mA		
600 W	106 mA	73 mA		

> For reliable output	ut volta	age					
Protection from ext aggressions	ernal	 Resistance to all types of external aggression: Overvoltages encountered in the mains grid (lightning, industrial, isolation fault on impedant neutral, etc.) Short-circuit on primary by slow-blow timed fuse on phase. Differential mode shock waves by varistor and fuse. Battery polarity reversals. Overvoltages on secondary. Overcurrents and short circuits on secondary. Short circuits inside the product by primary fuse. Rises in external temperatures (outside specified range). 					
Charger current limitation managen	nent	 The output Protects t Protection 	current limitation ca he product complete n selectivity is provid	n start a charging cy ely from short-circuit ed by fuses on each	cle on a discharged b s on the installation. load output and the	battery. battery circuit.	
Control and high-performance filtering		 Particularly efficient output voltage regulation Static control < 0.5% of U_n. Dynamic control < 5% of U_n for cumulative variations of the mains and the load (10% to 90%). Boosted filtering that eliminates all interference and reduces the ripple on the DC output voltage. Battery capacity preserved and guaranteed optimum operation of systems. LF rms ripple < 0.5% of U_n. HF ripple (20 MHz-50 Ω) < 4% of U_n. 					
> For the control ar	nd mar	nagement of t	he emergency powe	r source			
LED Test function		The two LED	light up for one seco	ond when the power	is switched on.		
System control	 Monitoring: State of mains, battery and load fuses. Presence or absence of battery. Temperature inside the cabinet. Battery voltage. Operating status. Presence of mains voltage in the correct operating range. 						
Battery charge management	 This function is essential to achieve the theoretical service life and guarantee optimum battery operation. The charge voltages are factory set. They comply with the stipulations of the battery manufacturers. The charger incorporates battery charge current limitation. 						
Battery safeguard	- Charger disconnects automatically at the end of battery discharge to preserve battery life. Battery safeguard Prevents batteries from becoming too discharged, which would cause irreparable deterioration in performances (cut-off threshold 1.8 V/element at +/-0.5%).						
Battery Circuit Test function		Every thirty seconds for the first twenty minutes, then every fifteen minutes.					
Battery Health Test function		Impedance test performed every sixteen hours (internal resistance measurement).					
Temperature compensation		-3 mV/eleme	ent/°C (on lead batte	ry models only)			
Restart (C13-100)	By local or remote manual action. After a configurable back-up time, the load will be disconnected from the battery. The restart button blinks and indicates a restart stand-by. "Restart?", "Restart in progress" or "Restart impossible" is displayed.						
Cold start		Start up with	nout the mains prese	nt, only using the ba	ttery		
Configurable back-up	o time	Via LCD scree	en (30 min, 1 h, 2 h, 4	4 h).			
Wind turbine functi	on	Delays the re	mote restart. The exe	ecution of the order o	an be delayed from 1	to 30 s, configurable	e via the LCD screen.
> For optimum com	nmunio	cation					
- Green/red/orange	e trico	our LED for di	splay and status con	trol	T	1	1
	Ste	eady green	Blinking green	Blinking orange	Steady orange	Steady red	Off
Battery LED	Batt	ery charged	Battery being charged	 Low battery Battery flat Battery needs to be charged 	Battery operation	Battery test fault	Battery disconnected in restart stand-by
User LED	Loa	d powered	-	-	10 mm²	- Charger fault - Fuse fault	Load disconnected
Restart button LED		-	-	Restart on stand-by	1.5 mm²	-	-

ENERGO DATASHEET

- Digital display The product displays the standard menu constantly. The standard menu display is incremented every ten seconds to indicate the next item of information and runs on a loop. Pressing and holding (1 s) is used to access the configuration menu. Pressing and holding again once in the configuration menu gives access to one of the proposed sub-menus. Press and hold to select a variable in one of the sub-menus. When selected, variable has an * next to it. Two menus: The Standard Menu displays the information regarding the battery voltage and current, the output voltage and current the mains, charger, battery or fuse fault the remaining autonomy (lead model) the language (Lead model: French/English)(German; Lithium model: French/English) the duration of the autonomy (Lead model: 0.5h/1h/2h/4h/8h/12h/no limit; Lithium model: 0.5h/1h/2h/4h) the restart delay (0 to 30s)			
The product displays the standard menu constantly. The standard menu display is incremented every ten seconds to indicate the next item of information and runs on a loop. Pressing and holding (1 s) is used to access the configuration menu. Pressing and holding again once in the configuration menu gives access to one of the proposed sub-menus. Press and hold to select a variable in one of the sub-menus. When selected, variable has an * next to it.Display and remote reporting of informationThe Standard Menu displays the information regarding • the battery voltage and current, • the output voltage and current • the end-of-life and replacement of the battery • the end-of-life and replacement of the battery • The Configuration Menu allows to select • the language (Lead model: French/English/German; Lithium model: French/English) • the duration of the autonomy (Lead model: 0.5h/1h/2h/4h/8h/12h/no limit; Lithium model: 0.5h/1h/2h/4h) • the pattery two (to 30s) • the battery two (dot gad model)			
• to do a battery test (lithium model)			
itive safety dry contacts			
Alarm reporting			
Name Terminals Status Fault conditions			
General fault1-2Open in the event of a faultCharger or mains or battery or impedance fault			
Mains present3-4Open in the event of a faultNo mains power			
Battery flat alarm5-6Open in the event of a faultBattery voltage < 1.85 V per cell			
> Connection specifications			
Screw-type terminal block			
Mains max. 4 mm ²			
Mains max. 4 mm ² Batteries Cabling supplied			
Mains max. 4 mm ² Batteries Cabling supplied Load (two outputs) max 10 mm ²			
Mainsmax. 4 mm²BatteriesCabling suppliedLoad (two outputs)max 10 mm²Alarm reportingmax 2.5 mm²			
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Mains $max. 4 mm^2$ Batteries $$			
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Mainsmax.4 mm²Batteries $4 = 1 + 1 + 2 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3$			

SLAT reserves the right to alter the characteristics of its products without prior notice.

Defining your lead battery's capacity

For systems requiring backup, you must first determine:	Define your adjustment factor K according to the required battery autonomy:	
\sim The system's continuous drain current. L	Required battery autonomy in hours (t)	Factor (K)
(in Amperes) or the continuous power input P	20	1.10
(in Watts) ~ The battery autonomy required by the customer,	12	1.15
	8	1.25
	4	1.56
t (in nours)	2	1.66
Ine adjustment factor K according to the cutoff	1	2
1.85V/cell and the battery autonomy	0.5 (30 min)	2.5
	0.33 (20 min)	3
	0.16 (10 min)	4

Note that, if you have the continuous power input P_n (in Watts), below is the calculation to obtain the continuous drain current I_n (in Amperes):

I_n [Ampere] = P_n [Watt] / U_n [Volt]

Perform the following calculation to define C_{Ah} , i.e. the required battery capacity in Ampere-hours:

$$C_{Ah} = I_n \mathbf{x} \mathbf{t} \mathbf{x} \mathbf{K}$$

(important: this formula is applicable to systems with a continuous output and a cutoff of 1.85V/cell)

Example : $U_n = 24 V$ $I_n = 4 A$

Required battery autonomy: 4 h

$$C_{Ah} = I_n x t x K$$
$$C_{Ah} = 4 x 4 x 1.56 = 24.96$$

I.e. a maximum capacity of: 24 Ah.

To perform this calculation, you must know:

 \sim The **rated operating voltage**, U_n (in Volts)

 \sim The system's **continuous drain current, I**_n (in Amperes), or the **continuous power input, P**_n (in Watts)

~ The associated **battery capacity** to maintain, **C**_{Ah} (see previous calculations)

Perform the following calculation to determine the current of the charger :

Charger rating = $I_n + (C_{Ah}/10)$

Example : $I_n = 4 A$ $C_{Ah} = 24 Ah$

Charger rating = 4 + (24/10) = 6.4

I.e. a charger rating greater than or equal to 6.4 A.

Batteries



PBE FRONT TERMINAL

MODEL	WEIGHT (kg)	SIZE W x H x D	CODE
BAT PBE 12V 2Ah	1,0 kg	178 x 64 x 34	9729120021
BAT PBE 12V 7Ah	2,7 kg	151 x 97,5 x 65	9729120060
BAT PBE 12V 12Ah	4,1 kg	151 X 97,5 x 100	9729120120
BAT PBE 12V 17Ah	6,4 kg	181 x 76 x 167	9729120150
BAT PBE 12V 24Ah	9,7 kg	166 x 175 x 125	9729120240
BAT PBE 12V 38Ah	14,5 kg	197 x 170 x 165	9729120380
BAT PBE 12V 65Ah	24,0 kg	350 x 174 x 166	9729120650
BAT PBE 12V 95Ah	33,2 kg	302 x 227 x 175	9729120850
BAT PBE 12V 130Ah M8	38,0 kg	410 x 225 x 177	9729121100

* The batterie capacities are indications. They may vary according to the supplier.



Delivery

Delivery service

SERVICE	TERM	CODE
DELIVERY TO ANOTHER ADDRESS	SERVICE LIV AUTRE ADRESSE	9003002
DELIVERY TO CONSTRUCTION SITE <100 KG	SERVICE LIV SUR SITE <100Kg	9003003
DELIVERY TO CONSTRUCTION SITE >100 KG	SERVICE LIV SUR SITE >100Kg	9003004
EXPRESS DELIVERY	SERVICE LIVRAISON EXPRESS	9003005
SEA FREIGHT PACKAGING	EMBALLAGE CAISSE BOIS MARITIME	9001001
WOODEN BOX PACKAGING	EMBALLAGE CAISSE BOIS	9001002



After-sales solutions

1. Your products are under warranty

For the simplest and quickest solution for the maintenance of your products under warranty:

- Contact our After Sales Department using the form on www. slat.com in your personal MySLAT space, please be sure to fill out all the required fields.
- Your Account Manager will process your request and send you the RMA form by email.
- On receipt of the RMA form, please send back two copies along with your product(s), one should be placed inside the package and the other on the outside of the package for warehouse identification. This will ensure your product can be traced.
- The repaired or replacement product(s) will be returned within 15 working days.



Spare parts

after.sales@slat.fr

HOTLINE + 33 478 66 63 70

Your online technical support

2. Your products are no longer under warranty

We offer two product maintenance solutions:

QUICK AND EASY: replace the equipment yourselves

- You do not need to send the equipment back.
- Order your maintenance board at the standard rate and receive delivery within one week. Contact our Customer Services Department for advice by filling out the contact form on www.slat.com in your personal MySLAT space.
- Your new boards come with a one-year warranty.

Have our experts repair your products

- If you prefer this option, please use the following procedure to obtain an RMA number:
- Contact our Customer Service Department using the form on www.slat.com in your personal MySLAT space, please be sure to fill out all the required fields.
- Your Account Manager will send you your RMA form along with the quote for the appropriate product range.
- On receipt of the RMA form, please send back two copies along with your product(s), one should be placed inside the package and the other on the outside of the package for warehouse identification. This will ensure your product can be traced. The repair work will only be carried out after the signed quote is received along with a repair order. If you do not wish to accept the quote, please return it to: service.client@slat.fr, marked as "refused" and specify if we should destroy the equipment or return it as is (in this case a €150 handling fee will be charged).
- The repaired or replacement product(s) will be returned within 15 working days. Your product will be covered by a new 3-month warranty..

Conditions: The Return Merchandise Authorisation is delivered by SLAT.

An RMA number is allocated to each product to be returned. Each RMA number is valid for a 30-day period.

No returns can be accepted without prior obtention of an RMA number.

MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
CL 12V 2A CARTE	0,1 kg	99 x 68 x 35	1020210000
CL 12V 5A CARTE	0,2 kg	99 x 85 x 35	1020510000
CL 12V 6A CARTE	0,5 kg	98 x 170 x 38	1020610000
CL 24V 2,5A CARTE	0,2 kg	99 x 85 x 35	1040210000
CL 24V 3A CARTE	0,5 kg	98 x 170 x 38	1040310000
CL 24V 4A CARTE	0,5 kg	158 x 112 x 47	1040410000
CL 24V 6A CARTE	0,5 kg	158 x 112 x 47	1040610000
CL 48V 2A CARTE	0,5 kg	158 x 112 x 47	1080210000
CL 48V 3A CARTE	0,5 kg	158 x 112 x 47	1080310000
EV 12V 6A CARTE	0,5 kg	98 x 170 x 54	1520610000
EV 12V 8A CARTE	1,5 kg	158 x 112 x 47	1520810000
EV 12V 12A CARTE	2,5 kg	158 x 112 x 47	1521210000
EV 12V 16A CARTE	0,5 kg	220 x 162 x 48	1521610000
EV 12V 24A CARTE	1,3 kg	220 x 162 x 48	1522410000

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Spare parts (continued)			
MODEL	WEIGHT (kg)	SIZE W x H x D (mm)	CODE
EV 12V 32A CARTE	2,3 kg	197 x 252 x 61	1523210000
EV 24V 3A CARTE	0,5 kg	98 x 170 x 54	1540310000
EV 24V 4A CARTE	0,5 kg	158 x 112 x 47	1540410000
EV 24V 6A CARTE	0,5 kg	158 x 112 x 47	1540610000
EV 24V 8A CARTE	0,5 kg	220 x 162 x 48	1540810000
EV 24V 12A CARTE	1,3 kg	220 x 162 x 48	1541210000
EV 24V 16A CARTE	2,3 kg	197 x 252 x 61	1541610000
EV 24V 24A CARTE	2,3 kg	197 x 252 x 61	1542410000
EV 48V 2A CARTE	0,5 kg	158 x 112 x 47	1580210000
EV 48V 3A CARTE	0,5 kg	158 x 112 x 47	1580310000
EV 48V 4A CARTE	0,5 kg	220 x 162 x 48	1580410000
EV 48V 6A CARTE	1,4 kg	220 x 162 x 48	1580610000
EV 48V 8A CARTE	1,4 kg	197 x 252 x 61	1580810000
EV 48V 12A CARTE	2,3 kg	197 x 252 x 61	1581210000
AES 24V 2A CARTE	0,5 kg	158 x 112 x 45	2040210000
AES 24V 3A CARTE	0,5 kg	98 x 170 x 54	2040310000
AES 24V 4A CARTE	0,5 kg	158 x 112 x 47	2040410000
AES 24V 6A CARTE	0,5 kg	158 x 112 x 47	2040610000
AES 24V 8A CARTE	0,5 kg	220 x 162 x 48	2040810000
AES 24V 12A CARTE	0,5 kg	158 x 112 x 47	2041210000
AES 24V 16A CARTE	2,3 kg	197 X 252 X 61	2041610000
AES 24V 24A CARTE	2,3 kg	197 X 252 X 61	2042410000
AES 48V 2A CARTE	0,5 kg	158 x 112 x 47	2080210000
AES 48V 3A CARTE	0,5 kg	158 x 112 x 47	2080310000
AES 48V 4A CARTE	0,5 kg	220 x 162 x 48	2080410000
AES 48V 6A CARTE	1,4 kg	220 x 162 x 48	2080610000
AES 48V 8A CARTE	1,4 kg	162 X 220 X 65	2080810000
AES 48V 12A CARTE	2,3 kg	197 X 252 x 61	2081210000
ACCES 12V 6A CARTE	1,0 kg	98 x 170 x 54	2520610000
ACCES 12V 8A CARTE	1,0 kg	158 x 112 x 47	2520810000
ACCES 12V 12A CARTE	1,0 kg	158 x 112 x 47	2521210000
ACCES 24V 3A CARTE	1,0 kg	98 x 170 x 54	2540310000
ACCES 24V 4A CARTE	1,0 kg	158 x 112 x 47	2540410000
ACCES 24V 6A CARTE	1,0 kg	158 x 112 x 47	2540610000
SANTE 24V 4A CARTE	1,0 kg	158 x 112 x 47	3040410000
SANTE 24V 8A CARTE	1,0 kg	220 x 162 x 48	3040810000
SANTE 24V 12A CARTE	1,3 kg	220 x 162 x 48	3041210000
SANTE 24V 16A CARTE	1,4 kg	220 x 162 x 48	3041610000
SANTE 24V 24A CARTE	2,3 kg	220 x 162 x 48	3042410000
AXS3 12V 4A CARTE	0,5 kg	130 x 104 x 41	2620410000
AXS3 12V 6A CARTE	0,5 kg	130 x 104 x 41	2620610000
AXS3 24V 2A CARTE	0,5 kg	130 x 104 x 41	2640210000
AXS3 24V 3A CARTE	0,5 kg	130 x 104 x 41	2640310000
AXS2 12V 2A CARTE	0,1 kg	99 x 68 x 35	2720205000
AXS2 12V 5A CARTE	0,2 kg	99 x 85 x 35	2720505000
AXS2 12V 10A CARTE	1,0 kg	158 x 112 x 47	2721010000
AXS2 24V 1A CARTE	0,1 kg	99 x 68 x 35	2740105000
AXS2 24V 2,5A CARTE	0,2 kg	99 x 85 x 35	2740205000
AXS2 24V 5A CARTE	1,0 kg	158 x 112 x 47	2740510000
OPTION CARTE 5 DEPARTS FUSIBLES	-	-	9059050004
PM CARTE EMBASE EP	-	-	4891000000
PM Carte VISU NG SAV	-	-	800000000

Repair Package

MODEL	RATING	CODE
A Repair package	12V 2A / 12V 5A / 24V 1A / 24V 2,5A	9005013
B Repair package	12V 6A / 12V 8A / 12V 12A / 24V 3A / 24V 4A / 24V 6A / 48V 1,5A / 48V 2A / 48V 3A	9005012
C Repair package	12V 16A / 12V 24A / 24V 8A / 24V 12A / 48V 4A / 48V 6A	9005011
D Repair package	12V 32A / 12V 48A / 24V 16A / 24V 24A / 48V 8A / 48V 12A	9005010
E Repair package	48V 16A / 48V 25A / 48V 40A	9005009

The packages are exclusive to the caliber of the products shown in the price list. The products which have more than 10 years and product which undervent physical damage (liquid, lightning, etc.) are consistently reported irreparable.

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MASTERED ENERGY

Reliable, innovative power supply solutions, in phase with their time and your everyday life.

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