Data sheet

6EP3343-0SA00-0AY0



SITOP PSU3600 FLEXI/1AC/3-52VDC/10A/120W

SITOP PSU3600 flexi Stabilized power supply Input: 120-230 V AC Output: 3-52 V DC/10 A, 120 W

Type of the power supply network 1-phase AC or DC	Input	
minimum rated value maximum rated value maximum rated value initial value full-scale value supply voltage at DC input voltage at DC input voltage at DC design of input wide range input operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC buffeng time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC With Pa = 120 W and Ue = 230 V AC Inset requency 1 rated value 1 rated value 2 rated value 3 OHz 1 rated value 4 OHz 1 rated input voltage 120 V 5 A Tarted input voltage 120 V 5 A Tarted input voltage 230 V 5 A Tarted input voltage 230 V 7 A Current limitation of inrush current at 25 °C maximum 1 A ² s 1 ruse protection type in the feeder Recommended miniature circuit breaker: 6-10 A characteristic C output voltage curve at output voltage 10 C rated value 24 V relative control precision of the output voltage a to on slow fluctuation of lomb loading 1 % relative control precision of the output voltage on slow fluctuation of lomb loading 1 %	type of the power supply network	1-phase AC or DC
	supply voltage at AC	
• initial value • full-scale value 264 V supply voltage • at DC 110 220 V Input voltage • at DC design of input wide range input operating condition of the mains buffering buffering time for rated value of the output current in the event of power failure mainmum operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC buffering time for rated value of the output current in the event of power failure mainmum operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC line frequency • 1 rated value • 2 rated value • 2 rated value • 2 rated value at rated input voltage 120 V • at rated input voltage 230 V • at rated input voltage 230 V • at rated input voltage 230 V • at rated input voltage 220 V • at output voltage • in the feeder Controlled, isolated DC voltage output voltage • at output 1 at DC rated value 24 V relative overall tolerance of the voltage • at output 1 at DC rated value • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of him loading	minimum rated value	120 V
■ till-scale value ■ at DC ■ at DC ■ to DC ■ at DC □ design of Input wide range input ○ perating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC □ power failure minimum □ operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC □ power failure minimum □ operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC □ power failure minimum □ powe	maximum rated value	230 V
supply voltage	• initial value	85 V; Derating at < 110 V AC/DC: output power max. 100 W
input voltage • at DC design of input wide range input operating condition of the mains buffering buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC 80 ms operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC line frequency • 1 rated value • 2 rated value • 2 rated value • 1 rated value • 2 rated value • 47 63 Hz input current • at rated input voltage 120 V • at rated input voltage 230 V • at rated input voltage 230 V • at rated input voltage 220 V current limitation of inrush current at 25 °C maximum 1 A ² ·s 1/2 t value maximum 1 A ² ·s 1/3 15 A (not accessible) • in the feeder Output voltage curve at output Controlled, isolated DC voltage output voltage • at output 1 at DC rated value 7 at output voltage • at output 1 at DC rated value relative control precision of the voltage • on slow fluctuation of input voltage • on slow fluctuation of pohy voltage • on slow fluctuation of pohy voltage • on slow fluctuation of other loading 1 %	• full-scale value	264 V
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design of input wide range input operating condition of the mains buffering with Pa = 120 W and Ue = 230 V AC buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC line frequency • 1 rated value • 2 rated value • 60 Hz line frequency • 1 rated input voltage 120 V • at rated input voltage 120 V • at rated input voltage 230 V • at rated input voltage 220 V current limitation of inrush current at 25 °C maximum 1A 2-s 12t value maximum 1 A2-s • in the feeder Recommended miniature circuit breaker: 6-10 A characteristic C Output voltage curve at output voltage at DC rated value • at output voltage • at output toltage • at on slow fluctuation of input voltage • on slow fluctuation of hem loading With Pa = 120 W and Ue = 230 V AC 80 ms 80 ms 80 ms PS Om S	input voltage	
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buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC line frequency • 1 rated value • 2 rated value 10 Hz line frequency • 1 rated input voltage 120 V • at rated input voltage 230 V • at rated input voltage 110 V • at rated input voltage 210 V • at rated input voltage 220 V • at output voltage and DC rated value • at output voltage • at output voltage • at output voltage • at output voltage • at output 1 at DC rated value • at output 1 of DC rated value • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 1 %	design of input wide range input	Yes
power failure minimum operating condition of the mains buffering With Pa = 120 W and Ue = 230 V AC line frequency • 1 rated value • 2 rated value fine frequency 47 63 Hz line frequency • 1 at rated input voltage 120 V • at rated input voltage 230 V • at rated input voltage 230 V • at rated input voltage 210 V • at rated input voltage 220 V • at rated input voltage 220 V 0.7 A current limitation of inrush current at 25 °C maximum 35 A l2t value maximum 1 A²-s fuse protection type • in the feeder voltage curve at output voltage at DC rated value voltage at DC rated value 24 V formula for output voltage • at output 1 at DC rated value • at output 1 at DC rated value • at output 1 at DC rated value • at output 1 oltage • on slow fluctuation of input voltage • on slow fluctuation of hm loading 1 %	operating condition of the mains buffering	With Pa = 120 W and Ue = 230 V AC
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1 rated value 2 rated value 60 Hz line frequency 47 63 Hz input current • at rated input voltage 120 V • at rated input voltage 230 V • at rated input voltage 110 V • at rated input voltage 220 V • at rated input voltage 220 V 0.7 A current limitation of inrush current at 25 °C maximum 1 A²-s fuse protection type • in the feeder voltage curve at output voltage curve at output voltage at DC rated value output voltage at DC rated value output voltage • at output 1 at DC rated value • at output 1 at DC rated value e at output 1 at DC rated value output 1 at DC rated value output voltage • at output 1 at DC rated value output or output voltage • at output 1 at DC rated value output voltage • at output 1 at DC rated value output voltage • at output 1 at DC rated value output voltage • at output of the output voltage • at output of the output voltage • at output of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 1 %	operating condition of the mains buffering	With Pa = 120 W and Ue = 230 V AC
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input current at rated input voltage 120 V at rated input voltage 230 V at rated input voltage 230 V at rated input voltage 210 V at rated input voltage 210 V at rated input voltage 220 V at rated input voltage at rated input	• 2 rated value	60 Hz
 at rated input voltage 120 V at rated input voltage 230 V at rated input voltage 2110 V at rated input voltage 2110 V at rated input voltage 220 V 0.7 A current limitation of inrush current at 25 °C maximum 1 A²-s fuse protection type in the feeder Recommended miniature circuit breaker: 6-10 A characteristic C Output voltage curve at output controlled, isolated DC voltage output voltage at DC rated value at output voltage at output 1 at DC rated value at output 1 at DC rated value at output 1 at DC rated value at output 1 olerance of the voltage relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % 	line frequency	47 63 Hz
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at rated input voltage 110 V at rated input voltage 220 V 0.7 A current limitation of inrush current at 25 °C maximum 35 A I2t value maximum 1 A²-s fuse protection type in the feeder Cutput voltage curve at output voltage at DC rated value output voltage at DC rated value formula for output voltage at a output 1 at DC rated value e at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1.3 A 0.7 A 0.7 A 0.7 A 1.3 A 0.7 A 0	 at rated input voltage 120 V 	2.6 A
at rated input voltage 220 V current limitation of inrush current at 25 °C maximum 35 A I2t value maximum 1 A²-s fuse protection type	 at rated input voltage 230 V 	1.3 A
current limitation of inrush current at 25 °C maximum 1 A²-s fuse protection type in the feeder Recommended miniature circuit breaker: 6-10 A characteristic C Output voltage curve at output voltage at DC rated value output voltage output voltage at output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of one loading 1 % 1 A²-s T 3.15 A (not accessible) Recommended miniature circuit breaker: 6-10 A characteristic C Controlled, isolated DC voltage 24 V formula for output voltage 3-52 V DC 1 % 1 %	 at rated input voltage 110 V 	1.3 A
I2t value maximum fuse protection type in the feeder Recommended miniature circuit breaker: 6-10 A characteristic C Output voltage curve at output voltage at DC rated value formula for output voltage output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of ohm loading 1 A²-s T 3.15 A (not accessible) Recommended miniature circuit breaker: 6-10 A characteristic C Controlled, isolated DC voltage 24 V 5-10 A characteristic C Controlled, isolated DC voltage 24 V 7-10 A characteristic C 24 V 1 V 1 V 1 V 1 V 1 V 1 V 1 V	at rated input voltage 220 V	0.7 A
fuse protection type in the feeder Recommended miniature circuit breaker: 6-10 A characteristic C Output Voltage curve at output output voltage at DC rated value formula for output voltage output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading T 3.15 A (not accessible) Recommended miniature circuit breaker: 6-10 A characteristic C Controlled, isolated DC voltage 24 V 5-52 V DC 1 % 1 %	current limitation of inrush current at 25 °C maximum	35 A
● in the feeder Recommended miniature circuit breaker: 6-10 A characteristic C Output voltage curve at output voltage at DC rated value formula for output voltage output voltage • at output 1 at DC rated value relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading Recommended miniature circuit breaker: 6-10 A characteristic C Controlled, isolated DC voltage 24 V 24 V 24 V relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 1 %	12t value maximum	1 A ² ·s
Output voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V formula for output voltage 3-52 V DC output voltage at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % 	fuse protection type	T 3.15 A (not accessible)
voltage curve at output output voltage at DC rated value formula for output voltage output voltage output voltage output voltage at output 1 at DC rated value relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading controlled, isolated DC voltage 3-52 V DC 24 V 7-1 1 % 1 % 1 %	• in the feeder	Recommended miniature circuit breaker: 6-10 A characteristic C
output voltage at DC rated value formula for output voltage output voltage at output 1 at DC rated value 24 V relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 %	Output	
formula for output voltage output voltage at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 %	voltage curve at output	Controlled, isolated DC voltage
output voltage • at output 1 at DC rated value relative overall tolerance of the voltage 1 % relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 1 %	output voltage at DC rated value	24 V
 at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % 	formula for output voltage	3-52 V DC
relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 %	output voltage	
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 %	at output 1 at DC rated value	24 V
 on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % 	relative overall tolerance of the voltage	1 %
• on slow fluctuation of ohm loading 1 %	relative control precision of the output voltage	
· ·	 on slow fluctuation of input voltage 	0.1 %
voltage compensation per sense line 0.5 V	 on slow fluctuation of ohm loading 	1 %
	voltage compensation per sense line	0.5 V

residual ripple	FO\/
maximum	50 mV
voltage peak	100 mV
maximum adjustable output voltage	0 52 V
adjustable output voltage	Yes
product function output voltage adjustable	
type of output voltage setting	via potentiometer (setting range 3 to 52 V) or analog control voltage signal 0 to 2.5 V (setting range 0 to 52 V)
display version for normal operation	Two-color LED: green for 24 V o.k., red for overload
type of signal at output	DC OK via relay contact, current monitor signal (0 to 2.5 V correspond to 0 to 10 A)
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	20 ms
output current	
• rated value	10 A
rated range	0 10 A; Output power max. 120 W
supplied active power typical	120 W
constant overload current	
 on short-circuiting during the start-up typical 	12 A
at short-circuit during operation typical	12 A
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	16 W
 during no-load operation maximum 	3 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	5 %
setting time	
• maximum	0.2 ms
Protection and monitoring	
design of the overvoltage protection	≤ 60 V according to EN 60950-1
response value current limitation	2 10 A
design of the current limitation	Can be set with potentiometer or analog control voltage signal 0.5 2.5 V
property of the output short-circuit proof	Can be set with potentionicter of analog control voltage signal c.o 2.0 v
	Yes
design of short-circuit protection	·
design of short-circuit protection enduring short circuit current RMS value	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting
	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting
enduring short circuit current RMS value	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V
enduring short circuit current RMS value • maximum	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V
enduring short circuit current RMS value ● maximum Safety	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20
enduring short circuit current RMS value ● maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current ● maximum protection class IP Approvals certificate of suitability ● CE marking	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20
enduring short circuit current RMS value • maximum Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum protection class IP Approvals certificate of suitability • CE marking • UL approval	Yes Electronic current limiting (2 10 A) in the range 3 12 V or power limiting (120 W) in the range 12 52 V 12 A Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA IP20 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259

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certificate of suitability	
• IECEX	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
 EAC approval 	Yes
C-Tick	Yes
Regulatory Compliance Mark (RCM)	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
DNV GL	No
 Lloyds Register of Shipping (LRS) 	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °C; Derating > 60°C: 2%/°K
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	L1, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
at output	+, -: 2 screw terminals each for 0.5 2.5 mm² single-core/finely stranded
for auxiliary contacts	Alarm signals, control inputs: screw-type terminals for 0.14 1.5 mm² single-
• for duxinary contacts	core/finely stranded
width of the enclosure	42 mm
height of the enclosure	125 mm
depth of the enclosure	135 mm
required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
• right	0 mm
net weight	0.55 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 200 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless
	otherwise specified)

