6EP3123-0TA00-0AY0

## **Data sheet**



SITOP PSU3400/DC/DC/24V/12V/8A

SITOP PSU3400 12 V/8 A Stabilized power supply Input: 24 V DC (14...32 V) Output: 12 V DC/8 A

type of the power supply network	DC voltage
supply voltage at AC	
initial value	Startup as of 18 V, derating necessary for 14 18 V DC
supply voltage	
• at DC	24 24 V
input voltage	
• at DC	14 32 V
design of input wide range input	No
overvoltage overload capability	-
operating condition of the mains buffering	at Vin = 24 V
buffering time for rated value of the output current in the event of power failure minimum	5 ms
operating condition of the mains buffering	at Vin = 24 V
input current	
at rated input voltage 24 V	4.5 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.18 A²·s
fuse protection type	15 A (not accessible), breaking capacity 100 A
• in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or C
Dutput	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
at output 1 at DC rated value	12 V
relative overall tolerance of the voltage	2 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.2 %
on slow fluctuation of ohm loading	1.3 %
residual ripple	
• maximum	150 mV
• typical	10 mV
voltage peak	
• maximum	250 mV
• typical	30 mV
	12 15.5 V
adjustable output voltage	
adjustable output voltage product function output voltage adjustable	Yes
· · · · · · · · · · · · · · · · · · ·	Yes via potentiometer
product function output voltage adjustable	

response delay maximum	0.5 s
voltage increase time of the output voltage	0.00
• typical	10 ms
maximum	20 ms
	20 III\$
output current	0.4
• rated value	8 A
• rated range	0 8 A; +60 +70 °C: Derating 2%/K
supplied active power typical	107 W
product feature	V
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output	11 W
current typical	
<ul> <li>during no-load operation maximum</li> </ul>	1.5 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.3 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of	4 %
resistive load 50/100/50 % typical	
setting time	2 mg
load step 50 to 100% typical     load step 100 to 50% typical	2 ms
load step 100 to 50% typical	2 ms
Protection and monitoring	11 .00 //
design of the overvoltage protection	Ua < 22 V
• typical	9 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
display version for overload and short circuit	LED yellow for "overload"
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class III
protection class IP	IP20
Approvals	IP20
Approvals certificate of suitability	
Approvals  certificate of suitability  • CE marking	Yes
Approvals  certificate of suitability  • CE marking  • UL approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Approvals  certificate of suitability  CE marking  UL approval  CSA approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  cCSAus, Class 1, Division 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  cCSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  cCSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No
Approvals  certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  CSA, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No
Approvals  certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No No
certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No No
certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No No No No Yes
certificate of suitability  CE marking  UL approval  CSA approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certificate of suitability  EAC approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No No No Yes Yes
certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certificate of suitability  EAC approval  Regulatory Compliance Mark (RCM)	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No Yes Yes Yes
certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate  certificate of suitability  EAC approval  Regulatory Compliance Mark (RCM)  certificate of suitability shipbuilding approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No Yes Yes Yes Yes
certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate  certificate of suitability  EAC approval  Regulatory Compliance Mark (RCM)  certificate of suitability shipbuilding approval  shipbuilding approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No Yes Yes Yes Yes
certificate of suitability  CE marking  UL approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate  certificate of suitability  EAC approval  Regulatory Compliance Mark (RCM)  certificate of suitability shipbuilding approval  shipbuilding approval  Marine classification association	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No Yes  Yes Yes Yes Yes ABS, DNV GL
certificate of suitability  CE marking  UL approval  CSA approval  CSA approval  CSAus, Class 1, Division 2  ATEX  certificate of suitability  IECEx  NEC Class 2  ULhazloc approval  FM registration  type of certification CB-certificate  certificate of suitability  EAC approval  Regulatory Compliance Mark (RCM)  certificate of suitability shipbuilding approval  shipbuilding approval  Marine classification association  American Bureau of Shipping Europe Ltd. (ABS)	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No Yes  Yes Yes Yes ABS, DNV GL
certificate of suitability	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No No No Yes  Yes Yes Yes ABS, DNV GL

EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 61000-6-3
<ul> <li>for mains harmonics limitation</li> </ul>	not applicable
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70 °C; with natural convection
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	L, N, FE: 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
width of the enclosure	32 mm
height of the enclosure	100 mm
depth of the enclosure	100 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.32 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
MTBF at 40 °C	1 934 648 h
other information	Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (unless otherwise specified)

