SIEMENS

Data sheet 6EP1322-2BA00



SITOP PSU100S/1AC/12VDC/7A

SITOP PSU100S 12 V/7 A stabilized power supply input: 120/230 V AC output: 12 V DC/7 A *Ex approval no longer available*

input	
type of the power supply network	1-phase AC
supply voltage at AC	Automatic range selection
supply voltage	120 V/230 V
input voltage 1 at AC	85 132 V
input voltage 2 at AC	170 264 V
wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at Vin = 93/187 V
Rated line frequency	50/60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	1.73 A
 at rated input voltage 230 V 	0.99 A
current limitation of inrush current at 25 °C maximum	45 A
fuse protection type	T 3,15 A/250 V (not accessible)
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C
output	
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
output voltage	
at output 1 at DC	12 12 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage initial value	11.5 V
adjustable output voltage full-scale value	15.5 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
	0.4.07
 on slow fluctuation of input voltage 	0.1 %
on slow fluctuation of input voltageon slow fluctuation of ohm loading	1%
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on slow fluctuation of ohm loading	
on slow fluctuation of ohm loading residual ripple	1 %
on slow fluctuation of ohm loading residual ripple maximum	1 % 150 mV
on slow fluctuation of ohm loading residual ripple maximum typical	1 % 150 mV
on slow fluctuation of ohm loading residual ripple maximum typical voltage peak	1 % 150 mV 20 mV

type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 3 %
response delay maximum	0.3 s
voltage increase time of the output voltage	
typical	10 ms
output current	
rated value	7 A
rated range	0 7 A; +50 +70 °C: Derating 0.75%/K
supplied active power typical	84 W
short-term overload current	
 on short-circuiting during the start-up typical 	25 A
at short-circuit during operation typical	25 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	800 ms
at short-circuit during operation	800 ms
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing	2
the power	-
Efficiency	
efficiency in percent	84 %
power loss [W]	
at rated output voltage for rated value of the output	15 W
current typical	
closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	5 %
setting time	
load step 10 to 90% typical	1 ms
load step 90 to 10% typical	1 ms
protection and monitoring	
design of the overvoltage protection	< 20 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
assign or orion should protestion.	
response value current limitation	7 8.8 A
overcurrent overload capability	
in normal operation	overload capability 150 % lout rated up to 5 s/min
enduring short circuit current RMS value	Overload Capability 130 % lout faled up to 3 shillin
•	0.0 A
• typical	8.8 A
safety	V
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	0.4 mA
protection class IP	IP20
EMC	
standard	
• for emitted interference	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
• for interference immunity	EN 61000-6-2
standards, specifications, approvals	
CE mark	Yes
UL/CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
	(CSA C22.2 No. 60950-1, UL 60950-1)
UL/CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
	(CSA C22.2 No. 60950-1, UL 60950-1)
	V
 certificate of suitability EAC approval 	Yes
 certificate of suitability EAC approval certificate of suitability NEC Class 2 	Yes No

CB approval	Yes
MTBF at 40 °C	1 998 441 h
standards, specifications, approvals hazardous environments	
 certificate of suitability IECEx 	No
 certificate of suitability ATEX 	No
 certificate of suitability ULhazloc approval 	No
 certificate of suitability cCSAus, Class 1, Division 2 	No
FM approval	No
standards, specifications, approvals marine classification	
	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV) Pat Negative (PNN) Pat Negative (PNN)	No V
Det Norske Veritas (DNV) Lloyde Pegister of Shipping (LDS)	Yes No
 Lloyds Register of Shipping (LRS) standards, specifications, approvals Environmental Product Dec 	
Environmental Product Declaration	
Global Warming Potential [CO2 eq]	Yes
• total	482.5 kg
during manufacturing	12.9 kg
during manufacturing during operation	469.1 kg
after end of life	0.35 kg
ambient conditions	
ambient temperature	
during operation	-25 +70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
connection method	
 Connection technology 	screw-type terminals
 Connections Supply input 	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
 Connections Output 	+, -: 2 screw terminals each for 0.5 2.5 mm²
 Connections Auxiliary 	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
Connections signaling contact	2 screw terminals for 0.5 2.5 mm ²
mechanical data	
width × height × depth of the enclosure	50 × 125 × 120 mm
installation width × Installation height	50 × 225 mm
required spacing	
top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
	0 1 000 1 50 007/- 0 1/-
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
fastening method standard rail mounting	Yes
fastening method S7 rail mounting	No No
fastening method wall mounting	No You
housing can be lined up	Yes 0.5 kg
Weight, approx. further information internet links	v.o ky
internet link	
	https://sigmans.com/tet
 to web page: selection aid TIA Selection Tool to website: Industrial communication 	https://siemens.com/tst
	http://www.siemens.com/simatic-net
• to website: CAx-Download-Manager	http://www.siemens.com/cax
additional information	Specifications at rated input valtage and ambient temperature 125 °C (vales)
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	

security information

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Classifications

Approvals Certificates

General Product Approval





Manufacturer Declaration



Declaration of Conformity



General Product Approval

For use in hazardous locations



Miscellaneous







CCC-Ex



Marine / Shipping

Environment





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