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*

nput	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	Automatic range selection
supply voltage	
1 at AC rated value	120 V
• 2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 V
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
line frequency	
• 1 rated value	50 Hz
• 2 rated value	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)
• 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
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	0.1 %
 on slow fluctuation of ohm loading 	1 %
residual ripple	
• maximum	150 mV
• typical	20 mV
voltage peak	
• maximum	240 mV

• typical	100 mV
adjustable output voltage	11.5 15.5 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 12 V OK
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
product feature	
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	5 %
resistive load 10/90/10 % typical	
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
response value current limitation	7 8.8 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	8.8 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
display version for overload and short circuit	-
Safety	
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
Approvals	20
certificate of suitability	Voc
• CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
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)
• cCSAus, Class 1, Division 2	No
• ATEX	No

IFOF.	M-
• IECEX	No
• NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
DNV GL	Yes
 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; 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, 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
for auxiliary contacts	Alarm signals: 2 screw terminals for 0.5 2.5 mm²
 for signaling contact 	2 screw terminals for 0.5 2.5 mm²
width of the enclosure	50 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
 ◆ top 	50 mm
• bottom	50 mm
● left	0 mm
• right	0 mm
net weight	0.5 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	1 998 441 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

