## SIEMENS

## Data sheet

## 6EP1322-5BA10



SITOP PSU100C/1ACDC/12VDC/6.5A

SITOP PSU100C 12 V/6.5 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 12 V DC/6.5 A \*Ex approval no longer available\*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
<ul> <li>minimum rated value</li> </ul>	100 V
<ul> <li>maximum rated value</li> </ul>	230 V
initial value	85 V
full-scale value	264 V
input voltage	
• at DC	110 300 V
design of input wide range input	Yes
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 230 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 = 230 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 100 V</li> </ul>	1.6 A
<ul> <li>at rated input voltage 230 V</li> </ul>	0.8 A
current limitation of inrush current at 25 °C maximum	31 A
I2t value maximum	3 A <sup>2</sup> ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	12 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.5 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	1 %
residual ripple	
• maximum	200 mV
typical	80 mV
voltage peak	

	200 m1/
• maximum	300 mV
typical	80 mV
adjustable output voltage	10.5 12.9 V
product function output voltage adjustable	Yes
type of output voltage setting display version for normal operation	via potentiometer Green LED for output voltage OK
behavior of the output voltage when switching on	Green LED for output voltage OK
response delay maximum	Overshoot of Vout approx. 1 % 1 s
voltage increase time of the output voltage	15
typical	500 ms
output current	000 m3
rated value	6.5 A
rated range	0 6.5 A; +55 +70 °C: Derating 1.6%/K; at +70 °C lout rated 4.9 A
supplied active power typical	78 W
product feature	
bridging of equipment	Yes; Start-up with single nominal load only
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	86 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	12.5 W
<ul> <li>during no-load operation maximum</li> </ul>	0.75 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage at load step	3 %
of resistive load 10/90/10 % typical	
setting time	
a load stop 10 to 000/ tursical	3 ms
<ul> <li>load step 10 to 90% typical</li> </ul>	0 110
load step 90 to 10% typical	3 ms
load step 90 to 10% typical	
load step 90 to 10% typical Protection and monitoring	3 ms
load step 90 to 10% typical      Protection and monitoring      design of the overvoltage protection     response value current limitation typical     property of the output short-circuit proof	3 ms Yes, according to EN 60950-1
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load step 90 to 10% typical     Protection and monitoring     design of the overvoltage protection     response value current limitation typical     property of the output short-circuit proof     design of short-circuit protection     display version for overload and short circuit     Safety     galvanic isolation between input and output     galvanic isolation     operating resource protection class     leakage current	3 ms Yes, according to EN 60950-1 7.2 A Yes Electronic shutdown, automatic restart - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
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certificate of suitability	-
• EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	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	LN 01000-0-2
ambient temperature	
during operation	-20 +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: Removable screw terminal, each for 1 x 0.5 2.5 mm <sup>2</sup>
<ul> <li>at output</li> </ul>	+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm²
<ul> <li>for auxiliary contacts</li> </ul>	-
width of the enclosure	52.5 mm
height of the enclosure	80 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	Removable spring-type terminal 6EP1971-5BA00
MTBF at 40 °C	2 853 800 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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