## **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
<ul> <li>initial value</li> </ul>	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	
<ul> <li>1 rated value</li> </ul>	50 Hz
<ul> <li>2 rated value</li> </ul>	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	
• maximum	300 mV
● typical	80 mV

adjustable output voltage product function output voltage adjustable type of output voltage setting display version for normal operation behavior of the output voltage when switching on response delay maximum voltage increase time of the output voltage • typical output current • rated value • rated range supplied active power typical product feature • bridging of equipment number of parallel-switched equipment resources for	<ul> <li>10.5 12.9 V</li> <li>Yes</li> <li>via potentiometer</li> <li>Green LED for output voltage OK</li> <li>Overshoot of Vout approx. 1 %</li> <li>1 s</li> <li>500 ms</li> <li>6.5 A</li> <li>0 6.5 A; +55 +70 °C: Derating 1.6%/K; at +70 °C lout rated 4.9 A</li> <li>78 W</li> <li>Yes; Start-up with single nominal load only</li> <li>2</li> </ul>
increasing the power	
Efficiency	00.0/
efficiency in percent power loss [W]	86 %
<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 of resistive load 10/90/10 % typical	3 %
setting time	2
<ul> <li>load step 10 to 90% typical</li> <li>load step 90 to 10% typical</li> </ul>	3 ms
Protection and monitoring	0 110
design of the overvoltage protection	Yes, according to EN 60950-1
response value current limitation typical	7.2 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	-
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	
certificate of suitability	
• 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 certificate of suitability	No
• 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 shipbuilding approval	Yes ABS, DNV GL
Marine classification association	

<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>French marine classification society (BV)</li> <li>DNV GL</li> <li>Lloyds Register of Shipping (LRS)</li> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	Yes No Yes No No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +70 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul> <li>during storage</li> </ul>	-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>
● at output	+: 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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