## **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

nput		
type of the power supply network	1-phase AC or DC	
supply voltage at AC		
minimum rated value	100 V	
maximum rated value	230 V	
• initial value	85 V	
• full-scale value	264 V	
input voltage at DC	110 300 V	
wide range input	Yes	
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 = 230 V	
line frequency	50/60 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	
fuse protection type 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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	10.5 12.9 V	
relative control precision of the output voltage		
on slow fluctuation of input voltage	0.5 %	
on slow fluctuation of ohm loading	1 %	
residual ripple		
• maximum	200 mV	
• typical	80 mV	
-, p		
voltage peak		
voltage peak  • maximum	300 mV	
voltage peak  • maximum  • typical	300 mV 80 mV	

behavior of the output voltage when switching on	Overshoot of Vout approx. 1 %	
response delay maximum	1 s	
voltage increase time of the output voltage		
• typical	500 ms	
output current		
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	
bridging of equipment	Yes; Start-up with single nominal load only	
number of parallel-switched equipment resources for increasing	2	
the power		
efficiency		
efficiency in percent	86 %	
power loss [W]		
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	12.5 W	
current typical		
during no-load operation maximum	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		
load step 10 to 90% typical	3 ms	
• load step 90 to 10% typical	3 ms	
protection and monitoring		
design of the overvoltage protection	Yes, according to EN 60950-1	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Electronic shutdown, automatic restart	
• typical	7.2 A	
safety	1.2.0	
	Yes	
galvanic isolation between input and output		
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Class I	
operating resource protection class	Ciass I	
leakage current  • maximum	2.5 m/s	
	3.5 mA	
	0.4 mA	
• typical	0.4 mA	
typical     protection class IP	0.4 mA IP20	
typical  protection class IP  standard	IP20	
typical  protection class IP  standard  • for emitted interference	IP20 EN 55022 Class B	
typical     protection class IP     standard	IP20 EN 55022 Class B EN 61000-3-2	
typical     protection class IP     standard	IP20 EN 55022 Class B	
typical     protection class IP     standard	IP20 EN 55022 Class B EN 61000-3-2	
typical     protection class IP     standard         • for emitted interference         • for mains harmonics limitation         • for interference immunity     standards, specifications, approvals     certificate of suitability	IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2	
typical     protection class IP  standard     for emitted interference     for mains harmonics limitation     for interference immunity  standards, specifications, approvals  certificate of suitability     CE marking	IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes	
typical     protection class IP  standard	IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
typical     protection class IP  standard	IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
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typical     protection class IP     standard         • for emitted interference         • for mains harmonics limitation         • for interference immunity         standards, specifications, approvals         certificate of suitability         • CE marking         • UL approval         • CSA approval         • EAC approval         • NEC Class 2	IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
typical protection class IP standard  for emitted interference for mains harmonics limitation for interference immunity standards, specifications, approvals certificate of suitability CE marking UL approval CSA approval EAC approval  EAC approval NEC Class 2 type of certification	IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes  No	
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typical     protection class IP     standard         • for emitted interference         • for mains harmonics limitation         • for interference immunity  standards, specifications, approvals  certificate of suitability         • CE marking         • UL approval          • CSA approval          • RAC approval          • NEC Class 2  type of certification         • CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability         • IECEx	IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes  No  Yes  2 853 800 h	
typical     protection class IP     standard         • for emitted interference         • for mains harmonics limitation         • for interference immunity  standards, specifications, approvals  certificate of suitability         • CE marking         • UL approval         • CSA approval         • RAC approval         • NEC Class 2  type of certification         • CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability         • IECEx         • ATEX	IP20  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  Yes  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)  Yes  No  Yes  2 853 800 h	
typical     protection class IP  standard         • for emitted interference         • for mains harmonics limitation         • for interference immunity  standards, specifications, approvals  certificate of suitability         • CE marking         • UL approval          • CSA approval          • NEC Class 2  type of certification         • CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability         • IECEx         • ATEX         • ULhazloc approval	IP20  EN 55022 Class B     EN 61000-3-2     EN 61000-6-2  Yes     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)     Yes     No  Yes     2 853 800 h	
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typical     protection class IP  standard         • for emitted interference         • for mains harmonics limitation         • for interference immunity  standards, specifications, approvals  certificate of suitability         • CE marking         • UL approval          • CSA approval          • NEC Class 2  type of certification         • CB-certificate  MTBF at 40 °C  standards, specifications, approvals hazardous environments  certificate of suitability         • IECEx         • ATEX         • ULhazloc approval	IP20  EN 55022 Class B     EN 61000-3-2     EN 61000-6-2  Yes     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)     Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)     Yes     No  Yes     2 853 800 h	

Yes	
Yes	
No	
Yes	
No	
claration	
Yes	
397.6 kg	
6.3 kg	
391 kg	
0.2 kg	
-20 +70 °C; with natural convection	
-40 +85 °C	
-40 +85 °C	
Climate class 3K3, 5 95% no condensation	
Cilifiado diado dico, o do /// 110 conacidadadi	
screw terminal	
L, N, PE: Removable screw terminal, each for 1 x 0.5 2.5 mm <sup>2</sup>	
+: 1 screw terminal for 0.5 2.5 mm²; -: 2 screw terminals for 0.5 2.5 mm²	
52.5 × 100	
52.5 mm	
50 mm	
50 mm	
0 mm	
0 mm	
Snaps onto DIN rail EN 60715 35x7.5/15	
Yes	
No	
No	
Yes	
0.32 kg	
Removable spring-type terminal 6EP1971-5BA00	
https://mall.industry.siemens.com	
https://siemens.com/tst	
http://www.siemens.com/simatic-net	
http://www.siemens.com/cax	
https://support.industry.siemens.com	
Specifications at rated input voltage and ambient temperature +25 °C (unless	
otherwise specified)	
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## Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

## Approvals Certificates

## **General Product Approval**

CB





Manufacturer Declaration Declaration of Conformity



General Product Approval

For use in hazardous locations

Marine / Shipping









CCC-Ex



Marine / Shipping

Environment





last modified:

5/18/2024