## **SIEMENS**

Data sheet 6EP1333-7CA00



SITOP PSU100P/1AC/24VDC/5A/IP67

SITOP PSU100P IP67 Stabilized power supply input: 120/230 V AC, output: 24 V DC/5 A

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
initial value	Automatic range selection
supply voltage	
<ul> <li>1 at AC rated value</li> </ul>	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	Implemented internally with varistor
operating condition of the mains buffering	at Vin = 120/230 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 120/230 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 120 V</li> </ul>	2.25 A
<ul> <li>at rated input voltage 230 V</li> </ul>	1.24 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.6 A <sup>2</sup> ·s
fuse protection type	T 3.15 A
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C/B
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
at output 1 at DC rated value	24 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>	0.1 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.2 %
residual ripple	
• maximum	50 mV
voltage peak	
• maximum	100 mV

product function output voltage adjustable	No
product function output voltage adjustable	No  Cross LED: 24 V OV: red LED floobing: "averload/abort circuit"
display version for normal operation	Green LED: 24 V OK; red LED flashing: "overload/short-circuit"  Relay contact (NO contact, rating 30 V AC/ 0.5 A; 30 V DC/1 A) for 24 V OK
type of signal at output behavior of the output voltage when switching on	
	Overshoot of Vout < 3 %
response delay maximum	1.5 \$
voltage increase time of the output voltage	22
• typical	22 ms
• maximum	100 ms
output current	F A
• rated range	5 A
• rated range	0 5 A
supplied active power typical	133 W
short-term overload current	00.4
on short-circuiting during the start-up typical	20 A
at short-circuit during operation typical	20 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	50 ms
at short-circuit during operation	50 ms
product feature	
bridging of equipment	Yes; Symmetric wiring required
number of parallel-switched equipment resources for increasing	2
the power	
ifficiency	00.07
efficiency in percent	90 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	12.9 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.2 %
fluctuation of the input voltage by +/- 15% typical	0.2 /0
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical	
setting time	
maximum	2 ms
Protection and monitoring	
design of the overvoltage protection	< 29 V
• typical	5.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
• maximum	6 A
• typical	5 A
display version for overload and short circuit	Red LED flashing for "overload/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	1 mA
protection class IP	IP67, enclosure type 5 indoor
Approvals	, ,
certificate of suitability	
CE marking	Yes
UL approval     CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1)
CSA approval     CSA approval     CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	N-
• IECEX	No 
NEC Class 2	No 
ULhazloc approval	No

• EM registration	No
FM registration  type of certification CB-certificate	No
	INO
certificate of suitability	W
EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C; with natural convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	3K6 without direct sunlight
Mechanics	
type of electrical connection	screw-type terminals
	screw-type terminals L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
type of electrical connection	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions
type of electrical connection  • at input	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
type of electrical connection  • at input  • at output	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)") +, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
type of electrical connection	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)") +, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
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type of electrical connection	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)") +, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)") Alarm signals: M12 plug-in connector 4-pin  Yes Yes 120 mm 181 mm 60.5 mm  50 mm 0 mm 0 mm 0 mm 0 mm 1.1 kg Yes

