## **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

Input	
Input	1-phase AC
<ul><li>Note</li></ul>	Automatic range selection
supply voltage	
<ul> <li>1 at AC rated value</li> </ul>	120 V
<ul> <li>2 at AC rated value</li> </ul>	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering	at Vin = 93/187 V
Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	1.73 A
<ul> <li>at rated input voltage 230 V</li> </ul>	0.99 A
Switch-on current limiting (+25 °C), max.	45 A
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	12 V
output voltage at output 1 at DC rated value	12 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	1 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	20 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	100 mV
Adjustment range	11.5 15.5 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 12 V OK

Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 12 V OK
On/off behavior	Overshoot of Vout < 3 %
Startup delay, max.	0.3 s
Voltage rise, typ.	10 ms
Rated current value lout rated	7 A
Current range	0 7 A
Note	+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
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	84 %
Power loss at Vout rated, lout rated, approx.	15 W
Closed-loop control	
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	5 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	
Output overvoltage protection	< 20 V
Current limitation	7 8.8 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	Ourstant current characteristic
• typical	8.8 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	-
Safety	
•	Von
Primary/secondary isolation	Yes  Sefety outra law outrait valtage Hout see to FN 60050 1 and FN 50179
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
leakage current	3.5 mA
• maximum	0.4 mA
• typical	
Degree of protection (EN 60529)	IP20
Approvals	V
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259, cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	IECEx Ex ec nC IIC T4 Gc; ATEX (EX) II 3G Ex ec nC IIC T4 Gc; cULus Class I Div. 2 (ANSI/ISA-12.12.01-2007, CSA C22.2 No. 213) Group ABCD, T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	DNV GL
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

environmental conditions		
ambient temperature		
<ul> <li>during operation</li> </ul>	-25 +70 °C	
— Note	with natural convection	
<ul> <li>during transport</li> </ul>	-40 +85 °C	
during storage	-40 +85 °C	
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation	
Mechanics		
Connection technology	screw-type terminals	
Connections		
Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded	
<ul><li>Output</li></ul>	+, -: 2 screw terminals each for 0.5 2.5 mm²	
<ul> <li>Auxiliary</li> </ul>	Alarm signals: 2 screw terminals for 0.5 2.5 mm <sup>2</sup>	
signaling contact	2 screw terminals for 0.5 2.5 mm <sup>2</sup>	
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	
Weight, approx.	0.5 kg	
product feature of the enclosure housing can be lined up	Yes	
Installation	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)	

