SIEMENS

Product data sheet 6EP1323-2BA00



SITOP PSU100S 12 V/14 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 12 V/14 A DC

Technical specifications		
Product	SITOP PSU100S	
Power supply, type	12 V/14 A	
Input		
Input	1-phase AC	
Supply voltage / 1 / at AC / nominal value	120 V	
Supply voltage / 2 / at AC / nominal value	230 V	
Voltage range		
• Note	Automatic range selection	
Input voltage / 1 / at AC	85 132 V	
Input voltage / 2 / at AC	170 264 V	
Wide-range input	No	
Overvoltage resistance	2.3 x Vin rated, 1.3 ms	
Mains buffering at lout rated, min.	20 ms	
Mains buffering	at Vin = 93/187 V	
Rated line frequency	50 / 60 Hz	
Rated line range	47 63 Hz	
Input current / at nominal level of the input voltage 120 V	3.24 A	
Input current / at nominal level of the input voltage 230 V	1.41 A	
Switch-on current limiting (+25 °C), max.	60 A	
Built-in incoming fuse	T 6.3 A/250 V (not accessible)	

Output Controlled, isolated DC voltage Rated voltage Vout DC 12 V Total tolerance, static a 3% Static mains compensation, approx. 1% Residual ripple peak-peak, max. 150 mV Residual ripple peak-peak, typ. 20 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 20 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 100 mV Adjustion trange 11.5 15.5 V Product feature / notiny voltage adjustable via potentiometer Status display Green LED for 12 V OK Oxfold behavior Oxeraboot of Vout < 3 % Status display 0.3 s Oxfold pelaky, max. 0.3 s Voltage rise, typ. 10 mS Rated current value four rated 14 A Current range 14 A •Note1 10 mS •Note2 10 mS •Short-term overload current / at short-circuit during run-p/ typic at 10 mS 10 mS •Note1 10 mS •Note1 10 mS •Note1 10 mS •Note1 and overloading ability for excess curren	Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A, characteristic C
Rated voltage Vout DC 12 V Total tolerance, static a 3 % Static names compensation, approx. 0.1 % Static load balancing, approx. 150 mV Residual ripple peak-peak, max. 20 mV Spikes peak, peak, max. (bandwidth: 20 MHz) 20 mV Spikes peak, peak, max. (bandwidth: 20 MHz) 100 mV Adjustment range 11.5 15.5 V Product feature / output voltage adjustable Vs Output voltage setting via potentiometer Status display Green LED for 12 V OK On/off behavior Overshoot of Voul < 3 %	Output	
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Spikes peak-peak, typ. (bandwidth: 20 MHz) 100 mV Adjustment range 11.5 15.5 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED 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 14 A Current range 0 14 A • Note 4.5 A up to +70 °C, 14 A up to +50 °C delivered active power / typ. 168 W short-term overload current / at short-circuit during run-up / typical 40 A Duration of overloading ability for excess current / on short-circuiting during the start-up 40 A Duration of overloading ability for excess current / on short-circuiting during the operational phase 200 ms Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency 2 Efficiency at Your trated, lour rated, approx. 87 % Power loss at Your trated, lour rated, approx. 5 % Load step s	Residual ripple peak-peak, typ.	20 mV
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Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 87 % Power loss at Vout rated, lout rated, approx. 24 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		800 ms
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Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ. 1 ms Protection and monitoring Output overvoltage protection < 20 V	Closed-loop control	
Load step setting time 90 to 10%, typ. 1 ms Protection and monitoring Output overvoltage protection < 20 V	Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	5 %
Protection and monitoring Output overvoltage protection < 20 V	Load step setting time 10 to 90%, typ.	1 ms
Output overvoltage protection < 20 V	Load step setting time 90 to 10%, typ.	1 ms
	Protection and monitoring	
Current limitation 14 16.4 A	Output overvoltage protection	< 20 V
	Current limitation	14 16.4 A

Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current / Effective level / typical	16.4 A
• Note	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	0.8 mA
CE mark	Yes
UL/CSA approval	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, UL 1604)
Explosion protection	ATEX and UL 1604 Class I, Div. 2, Group ABCD in preparation
FM approval	-
CB approval	Yes
Marine approval	GL in process
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature / in operation	-10 +70 °C
• Note	with natural convection
Ambient temperature / on transport	-40 +85 °C
Ambient temperature / in storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 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
Connections / Output	L+, M: 2 screw terminals each for 0.5 2.5 mm ²
Connections / Auxiliary	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
Width / of the housing	70 mm
Height / of the housing	125 mm
Depth / of the housing	125 mm

70 mm
225 mm
0.8 kg
Yes
No
Yes
No
Snaps onto DIN rail EN 60715 35x7.5/15
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung: