SIEMENS

Data sheet

6EP1336-2BA10



SITOP PSU100S/1AC/24VDC/20A

SITOP PSU100S 20 A stabilized power supply input: 120/230 V AC output: 24 V DC/20 A

input					
type of the power supply network	1-phase AC				
supply voltage at AC	Automatic range selection				
supply voltage	120 V/230 V				
input voltage 1 at AC	85 132 V				
input voltage 2 at AC	176 264 V				
wide range input	No				
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 = 120/230 V				
line frequency	50/60 Hz				
line frequency	47 63 Hz				
input current					
 at rated input voltage 120 V 	7.5 A				
 at rated input voltage 230 V 	3.5 A				
current limitation of inrush current at 25 °C maximum	11 A				
I2t value maximum	10 A ² ·s				
fuse protection type	T 10 A (not accessible)				
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C or circuit- breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 V)				
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				
output voltage adjustable	Yes; via potentiometer				
adjustable output voltage	24 28 V; max. 480 W				
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	150 mV				
voltage peak					
• maximum	240 mV				
display version for normal operation	Green LED for 24 V OK				
type of signal at output	Relay contact (NO contact, rating 50 V DC/ 0.3 A) for "24 V OK"				
behavior of the output voltage when switching on	No overshoot of Vout (soft start)				
response delay maximum	1.5 s				
voltage increase time of the output voltage					

• typical	50 ms	
• maximum	500 ms	
output current		
rated value	20 A	
rated range	0 20 A; 24 A up to +45°C; +60 +70 °C: Derating 5%/K	
supplied active power typical	480 W	
short-term overload current		
 on short-circuiting during the start-up typical 	35 A	
at short-circuit during operation typical	35 A	
duration of overloading capability for excess current		
 on short-circuiting during the start-up 	100 ms	
at short-circuit during operation	100 ms	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
efficiency in percent	90 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	53 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %	
setting time		
• maximum	10 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	21 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• maximum	7 A	
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	IP20	
standard		
 for emitted interference 	EN 55022 Class B	
 for mains harmonics limitation 	EN 61000-3-2	
 for interference immunity 	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability		
• CE marking	Yes	
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
CSA approval	(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)	
• EAC approval	Yes	
NEC Class 2	No	
type of certification		
• BIS	Yes; R-41183539	
CB-certificate	Yes	
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In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

				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						
СВ	(SP)	<u>Manufacturer De</u> tion	EG-Konf.	Declaration of Con- formity	UK CA	
General Product Approval		For use in hazardous locations				
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Marine / Shipping Environment

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