## 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			
<ul> <li>at rated input voltage 120 V</li> </ul>	7.5 A		
<ul> <li>at rated input voltage 230 V</li> </ul>	3.5 A		
current limitation of inrush current at 25 °C maximum	11 A		
I2t value maximum	10 A <sup>2</sup> ·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 overall tolerance of the voltage	3 %		
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			
voltage increase time of the output voltage	50 mg		
• 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			
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	35 A		
<ul> <li>at short-circuit during operation typical</li> </ul>	35 A		
duration of overloading capability for excess current			
<ul> <li>on short-circuiting during the start-up</li> </ul>	100 ms		
<ul> <li>at short-circuit during operation</li> </ul>	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]			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	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		
· · · · · · · · · · · · · · · · · · ·	overload capability 150 % four fated up to 5 smith		
enduring short circuit current RMS value	7 A		
• maximum safety			
	Ver		
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	0.5		
• maximum	3.5 mA		
• typical	1 mA		
protection class IP	IP20		
EMC			
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 C22.2 No. 60950-1, UL 60950-1)		
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)		
UKCA marking	Yes		
EAC approval	Yes		
NEC Class 2	No		
type of certification			
• BIS	Yes; R-41183539		

CB-certificate	Yes		
MTBF at 40 °C	1 778 916 h		
standards, specifications, approvals hazardous environments			
certificate of suitability			
• IECEx	No		
• ATEX	No		
ULhazloc approval	No		
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No		
FM registration	No		
standards, specifications, approvals marine classification			
shipbuilding approval	Yes		
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		
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes		
Lloyds Register of Shipping (LRS)	No		
standards, specifications, approvals Environmental Product Dec			
Environmental Product Declaration	Yes		
global warming potential [CO2 eq]	4 707 0 1/2		
total	1 707.2 kg		
during manufacturing	47.4 kg		
during operation	1 658.2 kg		
after end of life ambient conditions	0.72 kg		
ambient temperature <ul> <li>during operation</li> </ul>	0 70; with natural convection		
during transport	-40 +85		
during storage	-40 +85		
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation		
connection method			
type of electrical connection	screw terminal		
• at input	L1, N, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded		
• at output	+, -: 2 screw terminals each for 0.2 4 mm <sup>2</sup>		
<ul> <li>for auxiliary contacts</li> </ul>	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>		
mechanical data			
width × height × depth of the enclosure	115 × 145 × 150 mm		
installation width × mounting height	120 mm × 245 mm		
required spacing			
• top	50 mm		
• bottom	50 mm		
• left	0 mm		
• right	0 mm		
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15		
DIN-rail mounting	Yes		
S7 rail mounting	No		
wall mounting	No		
housing can be lined up	Yes		
net weight	2.4 kg		
accessories			
electrical accessories	Buffer module		
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20		
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com		
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud		
to web page: power supplies	https://siemens.com/sitop		
to website: CAx-Download-Manager	https://siemens.com/cax		
to website: Industry Online Support	https://support.industry.siemens.com		
additional information	Considerations at rated input values and exclusion terms of 00 00 /r. t		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless		

	otherwise specified)
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. 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 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)
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

 General Product Approval
 Manufacturer Declaration
 Declaration of Conformity
 UKG
 Image: Conformity

 General Product Approval
 Marine / Shipping
 Environment
 Environment

 BIS CRS
 Image: Conformity
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11/25/2024 🖸