# 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
l2t 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	
<ul> <li>at output 1 at DC rated value</li> </ul>	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	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.5 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	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 ms
• typical	50 ms 500 ms
maximum	
output current	20.4
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	2
the power	
efficiency	<b>22</b> M
efficiency in percent	90 %
power loss [W]	50.14
<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	1 %
fluctuation of the input voltage by +/- 15% typical	1 70
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	
<ul> <li>in normal operation</li> </ul>	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
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
opp	(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
cCSAus, Class 1, Division 2	No
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	1 707.2 kg
during manufacturing	47.4 kg
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<ul> <li>during operation</li> <li>after end of life</li> </ul>	1 658.2 kg 0.72 kg
ambient conditions	0.72 kg
ambient temperature	0 70: with network convection
during operation	0 70; with natural convection -40 +85
during transport	-40 +85
during storage	Climate class 3K3, 5 95% no condensation
environmental category according to IEC 60721 connection method	
	screw terminal
type of electrical connection	
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>
for auxiliary contacts mechanical data	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>
	115 × 145 × 150 mm
width × height × depth of the enclosure	120 mm × 245 mm
installation width × mounting height	120 11111 * 243 11111
required spacing	50 mm
• top	
• bottom	50 mm 0 mm
• left	
right     fastaning method	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
standard rail mounting	Yes
S7 rail mounting	No
wall mounting	No Yes
housing can be lined up	
net weight accessories	2.4 kg
	Ruffer module
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
further information internet links	
internet link	https://mall.induate/.eiomono.com
• to website: Industry Mall	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: CAx-Download-Manager	https://siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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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

### Approvals Certificates

General Product Approval

СВ	()	<u>Manufacturer Declara-</u> tion	<u>Declaration of Con-</u> <u>formity</u>	UK CA	CE EG-Konf.
General Product Approval		Marine / Shipping	Environment		
	<u>BIS CRS</u>		EPD		

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