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

type of the power supply network 1-phase AC supply voltage at AC Automatic range selection supply voltage 1 at AC 85 132 V input voltage 2 at AC 85 132 V input voltage 2 at AC 776 264 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 faiture minimum 20 ms operating condition of the mains buffering at Vin = 120/230 V line frequency 47 63 Hz line frequency 7.5 A • at rated input voltage 230 V 3.5 A current limitation of innush current at 25 °C maximum 11 A 12 value maximum 10 A2°s fuse protection type in the feeder T10 A (not accessible) fuse protection type in the feeder Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable 25 % <th< th=""><th>nput</th><th></th></th<>	nput		
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buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency line fr	wide range input	No	
power failure minimum 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 • at rated input voltage 230 V 3.5 A current limitation of inrush current at 25 °C maximum 11 A 12t value maximum 10 A²-s fuse protection type T10 A (not accessible) fuse protection type in the feeder Recommended miniature circuit breaker. from 10 A characteristic C or circuit-breaker 3RV2411-1JJA10 (120 V) or 3RV2411-1FA10 (230 V) **Voltage curve at output Octage 40 Uput Voltage 44 V output voltage at DC rated value 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage 40 Uput voltage 24 28 V; max. 480 W relative control precision of the output voltage relative control precision of fine output voltage 0.5 % • on slow fluctuation of input voltage 10 C of world 10 C on Silve Relative Control precision of the output voltage 0.5 % • on slow fluctuation of ohm loading 150 mV voltage peak • maximum 150 mV voltage of signal at output Relative Voltage when switching on No overshoot of Vout (soft start) **Total Control of Voltage of Voltage Voltage Orientater, relative Control of Voltage Voltage Agilystable Control of No overshoot of Vout (soft start) **Total Voltage Agilystable Control of No overshoot of Vout (soft start) **Total Voltage Agilystable Control of No overshoot of Vout (soft start)	overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
line frequency line f		20 ms	
line frequency 47 63 Hz input current at rated input voltage 120 V at rated input voltage 230 V current limitation of inrush current at 25 °C maximum 10 A²-s fuse protection type fuse protection type in the feeder fuse protection type in the feeder fuse protection type in the feeder controlled, isolated DC voltage at output voltage at DC rated value output voltage at DC rated value output voltage at DC rated value at output 1 at DC rated value at output 1 at DC rated value output voltage adjustable at output voltage adjustable at output voltage at output voltage at output voltage on slow fluctuation of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum display version for normal operation display version for normal operation feel signal at output At read input voltage short voltage on 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)	operating condition of the mains buffering	at Vin = 120/230 V	
input current at rated input voltage 120 V at rated input voltage 230 V at rated input voltage 230 V 3.5 A current limitation of inrush current at 25 °C maximum 11 A 12t value maximum 10 A²-s fuse protection type fuse protection type in the feeder breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 V) voltage curve at output voltage curve at output voltage at DC rated value at output voltage at DC rated value at output 1 at DC rated value at output voltage adjustable at output voltage at on slow fluctuation of input voltage on slow fluctuation of input voltage on slow fluctuation of hin loading residual ripple maximum display version for normal operation Green LED for 24 V OK be of signal at output be avoir of the output voltage when switching on No overshoot of Vout (soft start)	line frequency	50/60 Hz	
at rated input voltage 230 V at rated input voltage 230 V 3.5 A current limitation of inrush current at 25 °C maximum 11 A 12t value maximum 10 A²-s tuse protection type 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) voltage output voltage at DC rated value output voltage at DC rated value output voltage at output 1 at DC rated value output voltage adjustable ves; via potentiometer adjustable output voltage at output voltage on slow fluctuation of input voltage on slow fluctuation of input voltage on slow fluctuation of hm loading residual ripple maximum at output output voltage peak maximum display version for normal operation for each LED for 24 V OK 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)	line frequency	47 63 Hz	
at rated input voltage 230 V current limitation of inrush current at 25 °C maximum 11 A 12t value maximum 10 A²-s fuse protection type fuse protection type in the feeder voltage curve at output voltage at DC rated value output voltage at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage on slow fluctuation of input voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum adjustable maximum 240 mV voltage peak maximum 240 mV display version for normal operation Green LED for 24 V OK relative output voltage when switching on No overshoot of Vout (soft start)	input current		
current limitation of inrush current at 25 °C maximum 11 A 12t value maximum 10 A²-s fuse protection type 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) **STUDENT** voltage curve at output voltage curve at output output voltage at DC rated value • at output 1 at DC rated value • at output 1 at DC rated value • at output voltage adjustable relative correlative correlation of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum 240 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage when switching on No overshoot of Vout (soft start)	 at rated input voltage 120 V 	7.5 A	
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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) **Polyment** **	current limitation of inrush current at 25 °C maximum	11 A	
Recommended miniature circuit breaker: from 10 A characteristic C or circuit-breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 V) 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 5 on slow fluctuation of input voltage 6 on slow fluctuation of ohm loading 1 % residual ripple 6 maximum 150 mV voltage peak 8 maximum 240 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage when switching on No overshoot of Vout (soft start)	I2t value maximum	10 A²-s	
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 at output 1 at DC rated value 24 V output voltage adjustable adjustable output voltage 24 28 V; max. 480 W relative overall tolerance of the voltage a on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum maximum to mov voltage peak maximum green LED for 24 V OK type of signal at output behavior of the output voltage when switching on 24 V Yes; via potentiometer yes; via potentiometer 24 28 V; max. 480 W 3 % Testidual ripple on slow fluctuation of the output voltage 0.5 % 0.5 %<td>output voltage at DC rated value</td><td>24 V</td>	output voltage at DC rated value	24 V	
output voltage adjustable adjustable output voltage 24 28 V; max. 480 W relative overall tolerance of the voltage a on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 150 mV voltage peak maximum 240 mV display version for normal operation gread years of the output voltage when switching on No overshoot of Vout (soft start)	output voltage		
adjustable output voltage relative overall tolerance of the voltage e on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum toltage peak maximum display version for normal operation type of signal at output behavior of the output voltage when switching on 24 28 V; max. 480 W 3 % 1 % 1 % 1 % 1 % 1 % 1 % 1 %	at output 1 at DC rated value	24 V	
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relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple omaximum 150 mV voltage peak omaximum 240 mV display version for normal operation Green LED for 24 V OK type of signal at output behavior of the output voltage when switching on No overshoot of Vout (soft start)	adjustable output voltage	24 28 V; max. 480 W	
 on slow fluctuation of input voltage on slow fluctuation of ohm loading 1 % residual ripple maximum to mV voltage peak maximum to mV voltage peak maximum 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) 	relative overall tolerance of the voltage	3 %	
● on slow fluctuation of ohm loading residual ripple ● maximum 150 mV voltage peak ● maximum 240 mV display version for normal operation type of signal at output behavior of the output voltage when switching on 1 % 150 mV 240 mV Relay contact (NO contact, rating 50 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start)	relative control precision of the output voltage		
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)	 on slow fluctuation of input voltage 	0.5 %	
	 on slow fluctuation of ohm loading 	1 %	
voltage peak	residual ripple		
● 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)	• maximum	150 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)	voltage peak		
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)	• maximum	240 mV	
behavior of the output voltage when switching on No overshoot of Vout (soft start)	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"	
response delay maximum 1.5 s	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	50	
• 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	
EMC		
standard		
• for emitted interference		
• for mains harmonics limitation	EN 55022 Class B	
	EN 55022 Class B EN 61000-3-2	
 for interference immunity 		
• for interference immunity standards, specifications, approvals	EN 61000-3-2	
	EN 61000-3-2	
standards, specifications, approvals	EN 61000-3-2	
standards, specifications, approvals certificate of suitability	EN 61000-6-2	
standards, specifications, approvals certificate of suitability • CE marking	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
standards, specifications, approvals certificate of suitability • CE marking • UL approval	EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval	EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (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)	
standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (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) Yes	
standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking • EAC approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (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) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes Yes	

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	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	1 707.2 kg
during manufacturing	47.4 kg
during operation	1 658.2 kg
after end of life	0.72 kg
ambient conditions	
ambient temperature	
during operation	0 70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	a constitution of the cons
type of electrical connection	screw terminal
at output	L1, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
at output for auxiliany contacts.	+, -: 2 screw terminals each for 0.2 4 mm²
for auxiliary contacts mechanical data	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²
	115 × 145 × 150 mm
width × height × depth of the enclosure installation width × mounting height	115 × 145 × 150 mm 120 mm × 245 mm
required spacing	120 11111 ^ 270 111111
• 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	
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 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





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Maritime application

Environment



Miscellaneous

BIS CRS





last modified:

4/4/2025

