



SITOP PSU8200/3AC/36VDC/13A

SITOP PSU8200 36 V/13 A stabilized power supply input: 400-500 V 3 AC output: 36 V DC/13 A

Technical Product Detail Page

<https://i.siemens.com/1P6EP3446-8SB10-0AY0>

input	
type of the power supply network	3-phase AC
supply voltage at AC	
• minimum rated value	400 V
• maximum rated value	500 V
• initial value	320 V
• full-scale value	575 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 400 V	1.2 A
• at rated input voltage 500 V	1 A
current limitation of inrush current at 25 °C maximum	16 A
I _{2t} value maximum	0.8 A ² ·s
fuse protection type	none
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	36 V
output voltage	
• at output 1 at DC rated value	36 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	36 ... 42 V; max. 480 W
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.2 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	200 mV
display version for normal operation	Green LED for 36 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 36 V OK

behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	2.5 s
voltage increase time of the output voltage	
• maximum	500 ms
output current	
• rated value	13 A
• rated range	0 ... 13 A; +60 ... +70 °C: Derating 2%/K
supplied active power typical	468 W
short-term overload current	
• at short-circuit during operation typical	39 A
duration of overloading capability for excess current	
• at short-circuit during operation	25 ms
constant overload current	
• on short-circuiting during the start-up typical	14 A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	94 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	30 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
• load step 50 to 100% typical	0.2 ms
• load step 100 to 50% typical	0.2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
• load step 10 to 90% typical	0.2 ms
• load step 90 to 10% typical	0.2 ms
• maximum	10 ms
protection and monitoring	
design of the overvoltage protection	< 48 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 14 A or latching shutdown
• typical	14 A
overcurrent overload capability	overload capability 150 % Iout rated up to 5 s/min
• in normal operation	
enduring short circuit current RMS value	
• typical	14 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	0.9 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	<ul style="list-style-type: none"> CE marking UL approval EAC approval Regulatory Compliance Mark (RCM) NEC Class 2 SEMI F47 	<p>Yes</p> <p>Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p>
type of certification	<ul style="list-style-type: none"> CB-certificate 	Yes
standards, specifications, approvals hazardous environments		
certificate of suitability	<ul style="list-style-type: none"> IECEx ATEX ULhazloc approval FM registration 	<p>No</p> <p>No</p> <p>No</p> <p>No</p>
standards, specifications, approvals marine classification		
shipbuilding approval		Yes
Marine classification association	<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) 	<p>No</p> <p>No</p> <p>Yes</p> <p>No</p>
standards, specifications, approvals Environmental Product Declaration		
Environmental Product Declaration		Yes
global warming potential [CO ₂ eq]	<ul style="list-style-type: none"> total during manufacturing during operation after end of life 	<p>958.4 kg</p> <p>18.9 kg</p> <p>939 kg</p> <p>0.27 kg</p>
ambient conditions		
ambient temperature	<ul style="list-style-type: none"> during operation during transport during storage 	<p>-25 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	
connection method		
type of electrical connection	<ul style="list-style-type: none"> at input at output for auxiliary contacts 	
	<p>screw terminal</p> <p>L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm² single-core/finely stranded</p> <p>+, -: 2 screw terminals each for 0.2 ... 4 mm²</p> <p>13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm²</p>	
mechanical data		
width × height × depth of the enclosure	70 × 125 × 125 mm	
installation width × mounting height	70 mm × 225 mm	
required spacing	<ul style="list-style-type: none"> top bottom left right 	
	<p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p>	
fastening method	<ul style="list-style-type: none"> DIN-rail mounting S7 rail mounting wall mounting 	
	<p>Snaps onto DIN rail EN 60715 35x7.5/15</p> <p>Yes</p> <p>No</p> <p>No</p>	
housing can be lined up	Yes	
net weight	1.2 kg	
accessories		
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	
further information internet links		

internet link	<ul style="list-style-type: none"> • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: CAx-Download-Manager • to website: Industry Online Support 	https://mall.industry.siemens.com https://www.siemens.com/tstcloud https://siemens.com/sitop https://siemens.com/cax https://support.industry.siemens.com
identification link	Yes; acc. to IEC 61406-1:2022	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
security information		
security information	<p>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)</p>	

Classifications	Version	Classification
	eClass	14
	eClass	12
	eClass	9.1
	eClass	9
	eClass	8
	eClass	7.1
	eClass	6
	ETIM	10
	ETIM	9
	ETIM	8
	ETIM	7
	IDEA	4
	UNSPSC	15
		27-04-07-01
		27-04-07-01
		27-04-07-01
		27-04-07-01
		27-04-90-02
		27-04-90-02
		27-04-90-02
		EC002540
		4130
		39-12-10-04

Approvals Certificates
General Product Approval


[Manufacturer Declaration](#)
[Declaration of Conformity](#)

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[Environment](#)

[Miscellaneous](#)


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