



SITOP PSU8200/3AC/24VDC/40A

SITOP PSU8200 24 V/40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A

General information	
Technical Product Detail Page	<a href="https://i.siemens.com/1P6EP3437-8SB00-0AY0">https://i.siemens.com/1P6EP3437-8SB00-0AY0</a>
input	
type of the power supply network	3-phase AC
supply voltage at AC	
<ul style="list-style-type: none"> <li>• minimum rated value</li> <li>• maximum rated value</li> <li>• initial value</li> <li>• full-scale value</li> </ul>	400 V 500 V 320 V 575 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	10 ms
operating condition of the mains buffering	at $V_{in} = 400\text{ V}$
line frequency	50/60 Hz
line frequency	45 ... 65 Hz
input current	
<ul style="list-style-type: none"> <li>• at rated input voltage 400 V</li> <li>• at rated input voltage 500 V</li> </ul>	2.1 A 1.7 A
current limitation of inrush current at 25 °C maximum	13 A
I <sup>2</sup> t value maximum	2.24 A <sup>2</sup> ·s
fuse protection type	none
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 10 ... 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	24 V
output voltage	
<ul style="list-style-type: none"> <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. 960 W
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> <li>• on slow fluctuation of input voltage</li> <li>• on slow fluctuation of ohm loading</li> </ul>	0.1 % 0.2 %
residual ripple	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	100 mV
voltage peak	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	240 mV
display version for normal operation	Green LED for 24 V OK

type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	minimal overshooting (< 2 %)
response delay maximum	0.1 s
voltage increase time of the output voltage <ul style="list-style-type: none"> <li>• maximum</li> </ul>	100 ms
output current <ul style="list-style-type: none"> <li>• rated value</li> <li>• rated range</li> </ul>	40 A 0 ... 40 A; +60 ... +70 °C: Derating 4%/K
supplied active power typical	960 W
short-term overload current <ul style="list-style-type: none"> <li>• at short-circuit during operation typical</li> </ul>	120 A
duration of overloading capability for excess current <ul style="list-style-type: none"> <li>• at short-circuit during operation</li> </ul>	25 ms
constant overload current <ul style="list-style-type: none"> <li>• on short-circuiting during the start-up typical</li> </ul>	44 A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
<b>efficiency</b>	
efficiency in percent	94 %
power loss [W] <ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> <li>• during no-load operation maximum</li> </ul>	66 W 4 W
<b>closed-loop control</b>	
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 <ul style="list-style-type: none"> <li>• maximum</li> </ul>	10 ms
<b>protection and monitoring</b>	
design of the overvoltage protection	< 31.8 V
property of the output short-circuit proof	Yes
design of short-circuit protection <ul style="list-style-type: none"> <li>• typical</li> </ul>	Alternatively, constant current characteristic approx. 44 A or latching shutdown 44 A
overcurrent overload capability <ul style="list-style-type: none"> <li>• in normal operation</li> </ul>	overload capability 150 % I <sub>out</sub> rated up to 5 s/min
enduring short circuit current RMS value <ul style="list-style-type: none"> <li>• typical</li> </ul>	50 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
<b>safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current <ul style="list-style-type: none"> <li>• maximum</li> <li>• typical</li> </ul>	1 mA 0.6 mA
protection class IP	IP20
<b>EMC</b>	
standard <ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for mains harmonics limitation</li> <li>• for interference immunity</li> </ul>	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability <ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> <li>• EAC approval</li> </ul>	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes

<ul style="list-style-type: none"> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>NEC Class 2</li> </ul>	No
<ul style="list-style-type: none"> <li>SEMI F47</li> </ul>	Yes
type of certification	
<ul style="list-style-type: none"> <li>BIS</li> </ul>	Yes; R-41183539
<ul style="list-style-type: none"> <li>CB-certificate</li> </ul>	Yes
MTBF at 40 °C	517 015 h
<b>standards, specifications, approvals hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	No
<ul style="list-style-type: none"> <li>ATEX</li> </ul>	No
<ul style="list-style-type: none"> <li>ULhazloc approval</li> </ul>	No
<ul style="list-style-type: none"> <li>FM registration</li> </ul>	No
<b>standards, specifications, approvals marine classification</b>	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>French marine classification society (BV)</li> </ul>	No
<ul style="list-style-type: none"> <li>Det Norske Veritas (DNV)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<b>standards, specifications, approvals Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> <li>total</li> </ul>	1 751.8 kg
<ul style="list-style-type: none"> <li>during manufacturing</li> </ul>	78.9 kg
<ul style="list-style-type: none"> <li>during operation</li> </ul>	1 671.3 kg
<ul style="list-style-type: none"> <li>after end of life</li> </ul>	0.66 kg
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-25 ... +70 °C; With natural convection
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>	
type of electrical connection	screw terminal
<ul style="list-style-type: none"> <li>at input</li> </ul>	L1, L2, L3, PE: 1 screw terminal each for 0.5 ... 4 mm <sup>2</sup> single-core/finely stranded
<ul style="list-style-type: none"> <li>at output</li> </ul>	+: 2 screw terminals each for 0.5 ... 16 mm <sup>2</sup> ; -: 3 screw terminals each for 0.5 ... 16 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>for auxiliary contacts</li> </ul>	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 ... 2.5 mm <sup>2</sup>
<b>mechanical data</b>	
width × height × depth of the enclosure	135 × 145 × 150 mm
installation width × mounting height	135 mm × 225 mm
required spacing	
<ul style="list-style-type: none"> <li>top</li> </ul>	40 mm
<ul style="list-style-type: none"> <li>bottom</li> </ul>	40 mm
<ul style="list-style-type: none"> <li>left</li> </ul>	0 mm
<ul style="list-style-type: none"> <li>right</li> </ul>	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x15
<ul style="list-style-type: none"> <li>DIN-rail mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>S7 rail mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>wall mounting</li> </ul>	No
housing can be lined up	Yes
net weight	3.3 kg
<b>accessories</b>	
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
<b>further information internet links</b>	

internet link	<ul style="list-style-type: none"> <li>• to website: Industry Mall <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></li> <li>• to web page: selection aid TIA Selection Tool <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></li> <li>• to web page: power supplies <a href="https://siemens.com/sitop">https://siemens.com/sitop</a></li> <li>• to website: CAx-Download-Manager <a href="https://siemens.com/cax">https://siemens.com/cax</a></li> <li>• to website: Industry Online Support <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></li> </ul>
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**additional information**

other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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**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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>
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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	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

**Approvals Certificates**

Environmental Product Declaration	
<ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / during manufacturing</li> <li>• global warming potential [CO2 eq] / during operation</li> <li>• global warming potential [CO2 eq] / after end of life</li> <li>• global warming potential [CO2 eq] / total</li> </ul>	<p>78.9 kg 1671.3 kg 0.66 kg 1751.8 kg</p>

**Environment      General Product Approval**



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



**General Product Approval      Maritime application**

[China RoHS](#)



[BIS CRS](#)



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