



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	https://i.siemens.com/1P6EP3437-8SB00-0AY0
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	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	
• at rated input voltage 400 V	2.1 A
• at rated input voltage 500 V	1.7 A
current limitation of inrush current at 25 °C maximum	13 A
I ² t value maximum	2.24 A ² ·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	
• at output 1 at DC rated value	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	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.2 %
residual ripple	
• maximum	100 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 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 • maximum	100 ms
output current • rated value • rated range	40 A 0 ... 40 A; +60 ... +70 °C: Derating 4%/K
supplied active power typical	960 W
short-term overload current • at short-circuit during operation typical	120 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	44 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 • during no-load operation maximum	66 W 4 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	< 31.8 V
property of the output short-circuit proof	Yes
design of short-circuit protection • typical	Alternatively, constant current characteristic approx. 44 A or latching shutdown 44 A
overcurrent overload capability • in normal operation	overload capability 150 % I _{out} rated up to 5 s/min
enduring short circuit current RMS value • typical	50 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	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current • maximum • typical	1 mA 0.6 mA
protection class IP	IP20
EMC	
standard • for emitted interference • for mains harmonics limitation • for interference immunity	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
standards, specifications, approvals	
certificate of suitability • CE marking • UL approval • EAC approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes

Regulatory Compliance Mark (RCM)	Yes
NEC Class 2	No
SEMI F47	Yes
type of certification	
BIS	Yes; R-41183539
CB-certificate	Yes
MTBF at 40 °C	517 015 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
IECEX	No
ATEX	No
ULhazloc approval	No
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
total	1 751.8 kg
during manufacturing	78.9 kg
during operation	1 671.3 kg
after end of life	0.66 kg
ambient conditions	
ambient temperature	
during operation	-25 ... +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	
type of electrical connection	screw terminal
at input	L1, L2, L3, PE: 1 screw terminal each for 0.5 ... 4 mm² single-core/finely stranded
at output	±: 2 screw terminals each for 0.5 ... 16 mm²; -: 3 screw terminals each for 0.5 ... 16 mm²
for auxiliary contacts	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 ... 2.5 mm²
mechanical data	
width × height × depth of the enclosure	135 × 145 × 150 mm
installation width × mounting height	135 mm × 225 mm
required spacing	
top	40 mm
bottom	40 mm
left	0 mm
right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x15
DIN-rail mounting	Yes
S7 rail mounting	No
wall mounting	No
housing can be lined up	Yes
net weight	3.3 kg
accessories	
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
further information internet links	

internet link	
• 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

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	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)
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Classifications

	Version	Classification
eClass	16	27-04-07-01
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	
• global warming potential [CO2 eq] / during manufacturing • global warming potential [CO2 eq] / during operation • global warming potential [CO2 eq] / after end of life • global warming potential [CO2 eq] / total	78.9 kg 1671.3 kg 0.66 kg 1751.8 kg

Environment General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



General Product Approval Maritime application

[China RoHS](#)



[BIS CRS](#)



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