SIEMENS

Data sheet



SITOP PSU3800/3AC/24VDC/30-40A

SITOP PSU3800 24 V/30-40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/30-40 A suitable for battery charging

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 Vin = 400 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
12t value maximum	2.24 A²·s
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
autout valtage at DC reted value	24 V
output voltage at DC rated value	Z-4 V
output voltage at DC rated value output voltage	24 V
	24 V
output voltage	
output voltage • at output 1 at DC rated value	24 V
output voltage • at output 1 at DC rated value output voltage adjustable	24 V Yes; via potentiometer
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage	24 V Yes; via potentiometer 24 28 V; max. 960 W
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage	24 V Yes; via potentiometer 24 28 V; max. 960 W
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 %
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 %
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 %
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 % 0.2 %
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 % 0.2 %
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 % 0.2 % 100 mV
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 % 0.2 % 100 mV
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum display version for normal operation	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 % 0.2 % 100 mV 240 mV Green LED for 24 V OK
output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum display version for normal operation type of signal at output	24 V Yes; via potentiometer 24 28 V; max. 960 W 3 % 0.1 % 0.2 % 100 mV 240 mV Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"

• maximum	100 ms	
output current	100 ms	
• rated value	40 A	
• rated range	0 40 A; +60 +70 °C: Derating 4%/K	
supplied active power typical	960 W	
constant overload current		
on short-circuiting during the start-up typical	48 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]	04 /0	
at rated output voltage for rated value of the output current typical	66 W	
during no-load operation maximum	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	Constant current characteristic approx. 44 A	
• typical	44 A	
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	
	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output		
galvanic isolation between input and output galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation operating resource protection class	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA IP20	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA IP20 EN 55022 Class B	
galvanic isolation galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA IP20 EN 55022 Class B EN 61000-3-2	
galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA IP20 EN 55022 Class B EN 61000-3-2	
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galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
galvanic isolation galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA IP20 EN 55022 Class B 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	
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galvanic isolation galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • UKCA marking • EAC approval • Regulatory Compliance Mark (RCM) • NEC Class 2 • SEMI F47 type of certification • CB-certificate	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 1 mA 0.6 mA IP20 EN 55022 Class B 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) Yes Yes Yes Yes Yes Yes Yes Yes	
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Loyds Register of Shipping (LRS) standards, specifications, specifications and specifications desired and specifications desired and specifications are specifications and specifica	 French marine classification society (BV) 	No	
Standards Specifications Specifica	 Det Norske Veritas (DNV) 	Yes	
Environmental Product Declaration global warming petential (CO2 eq) • total • during menufacturing • during operation • during disperation • disperation disperation • disperation	Lloyds Register of Shipping (LRS)	No	
global warming potential [CO2 eq] • total • during manufacturing • during operation • defer end of life • antherit conditions ambient temperature • during operation • during preparation • during stransport • durin	standards, specifications, approvals Environmental Product De	eclaration	
total a during manufacturing	Environmental Product Declaration	Yes	
during neuralizaturing enter and of life enter and of	global warming potential [CO2 eq]		
- during operation	• total	2 118.7 kg	
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environmental category according to IEC 60721 Connection method type of electrical connection • at input • at output • at output • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height • top • bottom • left • right • all mounting • ST rail mounting • ST rail mounting • ST rail mounting • wall mounting • to we bage: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: Industry Mall • to website: Industry Online Support additional information Security information Siemens provides products and solutions with industrial cybersecurity functions Security information Security information Siemens provides products and solutions with industrial cybersecurity functions	during transport		
connection method type of electrical connection • at input • at output • at output • for auxiliary contacts • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • right • sore with mounting • S7 rail mounting • S7 rail mounting • S7 rail mounting • S8 rail mounting • S9 rail mounting • DN-rail mounting • S9 rail mounting • Dousing can be lined up • redescriptions accessories • lectrical accessories • lectrical accessories • lectrical accessories • low bebate: industry Mall • to web page: selection aid T1A Selection Tool • to web page: power supplies • to website: Industry Mall • to web page: power supplies • to website: Industry Online Support datifications other information other information other information Siemens provides products and solutions with industrial cybersecurity functions Siemens provides products and solutions with industrial cybersecurity functions Siemens provides products and solutions with industrial cybersecurity functions Siemens provides products and solutions with industrial cybersecurity functions Siemens provides products and solutions with industrial cybersecurity functions	during storage	-40 +85 °C	
type of electrical connection • at input • at output • at output • at output • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height • or top • to to be basic: CAx-Download-Manage • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to top basic: CAx-Download-Manage • to website: Industry Online Support • the top		Climate class 3K3, 5 95% no condensation	
at input at output at output at output at output be for auxiliary contacts 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminals each for 0.5 45 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminals each for 0.05 2.5 mm² mechanical data width × height × depth of the enclosure installation width × mounting height 135 × 145 × 150 mm installation width × mounting height 135 mm × 225 mm required spacing bottom bottom bottom bottom clint fastening method DIN-rail mounting solve and mounting wall mounting wall mounting wall mounting wall mounting wall mounting wall mounting bottom bottom bottom bottom bottom solve and mounting wall mounting wall mounting wall mounting bottom	connection method		
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width × height × depth of the enclosure installation width × mounting height required spacing • top • top • bottom • left • right • or mm • left • or mm • loth-rail mounting • ST rail mounting • wall end of the wood of the soft of the s	for auxiliary contacts		
installation width × mounting height required spacing • top • top • do mm • left • right • right • o mm • left • right • DIN-rail mounting • S7 rail mounting • Wall end of 715 35x15 • wall EN 60715 35x15 • wall EN	mechanical data		
required spacing • top • top • bottom • left • right fastening method • DIN-rail mounting • X rail mounting • X rail mounting • Yes • Yes • Yrail mounting • No housing can be lined up net weight accessories electrical accessories electrical accessories electrical accessories beliented in Internet links internet link • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to web page: power supplies • to website: Industry Online Support additional information other information other information Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) security information Siemens provides products and solutions with industrial cybersecurity functions Siemens provides products and solutions with industrial cybersecurity functions Siemens provides products and solutions with industrial cybersecurity functions	width × height × depth of the enclosure	135 × 145 × 150 mm	
• top • bottom • bottom • left • right • or mm • left • right • or mm fastening method • DIN-rail mounting • S7 rail mounting • S7 rail mounting • wall mounting • wall mounting • wall mounting housing can be lined up het weight accessories electrical accessories mechanical accessories mechanical accessories mechanical accessories 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 other information Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) security information Siemens provides products and solutions with industrial cybersecurity functions	installation width × mounting height	135 mm × 225 mm	
bottom left left left loft left loft loft left left loft loft left loft loft left left loft loft left left loft left left loft loft left left loft loft left left left left loft left left left left left left left le	required spacing		
e left	• top	40 mm	
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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)

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





Manufacturer Declaration Declaration of Conformity





General Product Approval

Maritime application

Environment









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