Data sheet



SITOP PSU3800/3AC/24VDC/17A

SITOP PSU3800 24 V/17 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/17 A optimized for battery charging

type of the power supply network 3-phase AC supply voltage at AC 400 V • minimum rated value 500 V • initial value 500 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 = 40 V line frequency 5060 Hz line frequency 47 63 Hz input current 1 1 A • at rated input voltage 400 V 9.9 A • at rated input voltage 500 V 0.9 A current limitation of inush current at 25 °C maximum 16 A £12 value maximum 0.8 A² s fuse protection type in the feeder none fuse protection type in the feeder Cecurrent limitation of inush current at 25 °C maximum ubutual 24 V output voltage at DC rated value 24 V output voltage at DC rated value 24 V output voltage at DC rated value 24 V output voltage at DC rated value 24 V	input		
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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 0.2 % residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output behavior of the output voltage when switching on No overshoot of Vout (soft start)	output voltage adjustable	Yes; via potentiometer	
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation 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	
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 on slow fluctuation of ohm loading residual ripple maximum voltage peak maximum a maximum b maximum display version for normal operation type of signal at output behavior of the output voltage when switching on 0.2 % Secondary Relay contact (NO contact, rating 60 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 100 mV voltage peak • maximum 200 mV display version for normal operation type of signal at output Behavior of the output voltage when switching on To maximum 200 mV Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start)	on slow fluctuation of input voltage	0.1 %	
	on slow fluctuation of ohm loading	0.2 %	
voltage peak	residual ripple		
● maximum 200 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 No overshoot of Vout (soft start)	• maximum	100 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 No overshoot of Vout (soft start)	voltage peak		
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 No overshoot of Vout (soft start)	maximum	200 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 60 V DC/ 0.3 A) for "24 V OK"	
response delay maximum 2.5 s	behavior of the output voltage when switching on	No overshoot of Vout (soft start)	
	· · · · · · · · · · · · · · · · · · · ·		

voltage increase time of the output voltage	F00 ma
maximum	500 ms
output current	47.0
rated value	17 A
rated range	0 17 A; +60 +70 °C: Derating 2%/K
supplied active power typical	408 W
constant overload current	
on short-circuiting during the start-up typical	19 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	26 W
current typical	
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	< 32 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 19 A or latching shutdown
typical typical	19 A
enduring short circuit current RMS value	40.4
typical display version for overload and short circuit	19 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
safety	Yes
galvanic isolation between input and output galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	0.0001
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	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
UKCA marking	Yes
EAC approval	Yes
 Regulatory Compliance Mark (RCM) 	Yes
NEC Class 2	No
• SEMI F47	Yes
type of certification	

CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEX	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
	No
FM registration standards, specifications, approvals marine classification	NO
	Vee
shipbuilding approval	Yes
Marine classification association	V
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV) Relative (BNR)	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	833.3 kg
during manufacturing	18.9 kg
 during operation 	813.8 kg
after end of life	0.27 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 0.2 4 mm² single-core/finely
	stranded
• at output	+, -: 2 screw terminals each for 0.2 4 mm ²
 for auxiliary contacts 	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² ; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm ²
mechanical data	(Nemote). I screw terminal each for 0.14 1.3 min
	70 × 125 × 125 mm
width × height × depth of the enclosure	70 × 125 × 125 mm
installation width × mounting height	70 Hilli × 225 Hilli
required spacing	FO
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
• standard rail mounting	Yes
S7 rail mounting	No
wall mounting	No
housing can be lined up	Yes
net weight	1.2 kg
accessories	
electrical accessories	Buffer module
electrical accessories mechanical accessories	Buffer module Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
electrical accessories	
electrical accessories mechanical accessories	
electrical accessories mechanical accessories further information internet links	
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electrical accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to website: Industrial communication • to website: CAx-Download-Manager	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 https://mall.industry.siemens.com https://siemens.com/industrial-communication https://siemens.com/cax
electrical accessories mechanical accessories further information internet links internet link • to website: Industry Mall • to website: Industrial communication • to website: CAx-Download-Manager • to website: Industry Online Support	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 https://mall.industry.siemens.com https://siemens.com/industrial-communication https://siemens.com/cax

security information

security information

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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	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 Ap-

Marine / Shipping

Environment









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