



SITOP PSU3400/DC/DC/24V/12V/8A

SITOP PSU3400 12 V/8 A stabilized power supply input: 24 V DC (14...32 V)
output: 12 V DC/8 A

General information

Technical Product Detail Page

<https://i.siemens.com/1P6EP3123-0TA00-0AY0>

input

type of the power supply network	DC voltage
supply voltage at AC	Startup as of 18 V, derating necessary for 14 ... 18 V DC
supply voltage at DC	24 V
input voltage at DC	14 ... 32 V
wide range input	No
overvoltage overload capability	-
buffering time for rated value of the output current in the event of power failure minimum	5 ms
operating condition of the mains buffering	at $V_{in} = 24 \text{ V}$
input current	
• at rated input voltage 24 V	4.5 A
current limitation of inrush current at 25 °C maximum	15 A
I ² t value maximum	0.18 A ² ·s
fuse protection type	15 A (not accessible), breaking capacity 100 A
fuse protection type in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or C

output

voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
• at output 1 at DC rated value	12 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	12 ... 15.5 V
relative overall tolerance of the voltage	2 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.2 %
• on slow fluctuation of ohm loading	1.3 %
residual ripple	
• maximum	150 mV
• typical	10 mV
voltage peak	
• maximum	250 mV
• typical	30 mV
display version for normal operation	Green LED for 12 V OK
behavior of the output voltage when switching on	No overshoot of V_{out} (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	

• typical	10 ms
• maximum	20 ms
output current	
• rated value	8 A
• rated range	0 ... 8 A; +60 ... +70 °C: Derating 2%/K
supplied active power typical	107 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	90 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	11 W
• during no-load operation maximum	1.5 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	4 %
setting time	
• load step 50 to 100% typical	2 ms
• load step 100 to 50% typical	2 ms
protection and monitoring	
design of the overvoltage protection	Ua < 22 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
• typical	9 A
display version for overload and short circuit	LED yellow for "overload"
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 III
protection class IP	IP20
EMC	
standard	
• for emitted interference	EN 61000-6-3
• for mains harmonics limitation	not applicable
• 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
• EAC approval	Yes
• Regulatory Compliance Mark (RCM)	Yes
• NEC Class 2	No
type of certification	
• CB-certificate	Yes
MTBF at 40 °C	1 934 648 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

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

General Product Approval

[Manufacturer Declaration](#)

[Declaration of Conformity](#)


EG-Konf.

[China RoHS](#)


UL


RCM

Maritime application



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