



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 $V_{in} = 24 V$
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	

<ul style="list-style-type: none"> • typical 	10 ms
<ul style="list-style-type: none"> • maximum 	20 ms
output current	
<ul style="list-style-type: none"> • rated value 	8 A
<ul style="list-style-type: none"> • 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]	
<ul style="list-style-type: none"> • at rated output voltage for rated value of the output current typical 	11 W
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • load step 50 to 100% typical 	2 ms
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • for emitted interference 	EN 61000-6-3
<ul style="list-style-type: none"> • for mains harmonics limitation 	not applicable
<ul style="list-style-type: none"> • for interference immunity 	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • UL approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul style="list-style-type: none"> • EAC approval 	Yes
<ul style="list-style-type: none"> • Regulatory Compliance Mark (RCM) 	Yes
<ul style="list-style-type: none"> • NEC Class 2 	No
type of certification	
<ul style="list-style-type: none"> • CB-certificate 	Yes
MTBF at 40 °C	1 934 648 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No
<ul style="list-style-type: none"> • ATEX 	No
<ul style="list-style-type: none"> • ULhazloc approval 	No
<ul style="list-style-type: none"> • FM registration 	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) 	Yes

<ul style="list-style-type: none"> • French marine classification society (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS) 	No Yes No	
ambient conditions		
ambient temperature		
<ul style="list-style-type: none"> • during operation • during transport • during storage 	-25 ... +70 °C; with natural convection -40 ... +85 °C -40 ... +85 °C	
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	
connection method		
type of electrical connection	screw terminal	
<ul style="list-style-type: none"> • at input • at output 	L, N, FE: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.5 ... 2.5 mm ²	
mechanical data		
width × height × depth of the enclosure	32 × 100 × 100 mm	
installation width × mounting height	32 mm × 200 mm	
required spacing		
<ul style="list-style-type: none"> • top • bottom • left • right 	50 mm 50 mm 0 mm 0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
<ul style="list-style-type: none"> • DIN-rail mounting • S7 rail mounting • wall mounting 	Yes No No	
housing can be lined up	Yes	
net weight	0.32 kg	
accessories		
electrical accessories	Buffer module	
further information internet links		
internet link		
<ul style="list-style-type: none"> • 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)	
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)	
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

General Product Approval

[Manufacturer Declaration](#)

[Declaration of Conformity](#)



[China RoHS](#)



Maritime application



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