



SITOP PSU3400/DC/DC/48V/24V/5A

SITOP PSU3400 24 V/5 A Stabilized power supply Input: 48 V DC (28...60 V)
Output: 24 V DC/5 A

General information

Technical Product Detail Page

<https://i.siemens.com/1P6EP3233-0TA00-0AY0>

input

type of the power supply network	DC voltage
supply voltage at AC	Startup as of 36 V, derating necessary for 28 ... 36 V DC
supply voltage at DC	48 V
input voltage at DC	28 ... 60 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 $V_{in} = 48 \text{ V}$
input current	
• at rated input voltage 48 V	2.7 A
current limitation of inrush current at 25 °C maximum	15 A
I ² t value maximum	0.12 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	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
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.3 %
residual ripple	
• maximum	150 mV
• typical	70 mV
voltage peak	
• maximum	250 mV
• typical	220 mV
display version for normal operation	Green LED for 24 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	5 A
• rated range	0 ... 6 A; 6 A up to +40°C; +60 ... +70 °C: Derating 2%/K
supplied active power typical	130 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	92 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	10 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	2 %
setting time	
• load step 50 to 100% typical	1 ms
• load step 100 to 50% typical	1 ms
protection and monitoring	
design of the overvoltage protection	Ua < 35 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
• typical	6.5 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	1 965 061 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) - Det Norske Veritas (DNV) - Lloyds Register of Shipping (LRS)	No Yes No		
ambient conditions			
ambient temperature - 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 - at input - at output	screw terminal L, N, FE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.5 ... 2.5 mm²		
mechanical data			
width × height × depth of the enclosure	32 × 100 × 100 mm		
installation width × mounting height	32 mm × 200 mm		
required spacing - top - bottom - left - right	50 mm 50 mm 0 mm 0 mm		
fastening method - DIN-rail mounting - S7 rail mounting - wall mounting	Snaps onto DIN rail EN 60715 35x7.5/15 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 - 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	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

General Product Approval

[Manufacturer Declaration](#)

[Declaration of Conformity](#)


EG-Konf.

[China RoHS](#)


UL


RCM

Maritime application



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