



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	<a href="https://i.siemens.com/1P6EP3233-0TA00-0AY0">https://i.siemens.com/1P6EP3233-0TA00-0AY0</a>
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 <sup>2</sup> t value maximum	0.12 A <sup>2</sup> ·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	

<ul style="list-style-type: none"> <li>• typical</li> </ul>	10 ms
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	20 ms
output current	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	5 A
<ul style="list-style-type: none"> <li>• rated range</li> </ul>	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
<b>efficiency</b>	
efficiency in percent	92 %
power loss [W]	
<ul style="list-style-type: none"> <li>• at rated output voltage for rated value of the output current typical</li> </ul>	10 W
<ul style="list-style-type: none"> <li>• during no-load operation maximum</li> </ul>	1.5 W
<b>closed-loop control</b>	
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	
<ul style="list-style-type: none"> <li>• load step 50 to 100% typical</li> </ul>	1 ms
<ul style="list-style-type: none"> <li>• load step 100 to 50% typical</li> </ul>	1 ms
<b>protection and monitoring</b>	
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
<ul style="list-style-type: none"> <li>• typical</li> </ul>	6.5 A
display version for overload and short circuit	LED yellow for "overload"
<b>safety</b>	
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
<b>EMC</b>	
standard	
<ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>	EN 61000-6-3
<ul style="list-style-type: none"> <li>• for mains harmonics limitation</li> </ul>	not applicable
<ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>	EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• UL approval</li> </ul>	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul style="list-style-type: none"> <li>• EAC approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Regulatory Compliance Mark (RCM)</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• NEC Class 2</li> </ul>	No
type of certification	
<ul style="list-style-type: none"> <li>• CB-certificate</li> </ul>	Yes
MTBF at 40 °C	1 965 061 h
<b>standards, specifications, approvals hazardous environments</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• IECEx</li> </ul>	No
<ul style="list-style-type: none"> <li>• ATEX</li> </ul>	No
<ul style="list-style-type: none"> <li>• ULhazloc approval</li> </ul>	No
<ul style="list-style-type: none"> <li>• FM registration</li> </ul>	No
<b>standards, specifications, approvals marine classification</b>	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes

<ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	<p>No</p> <p>Yes</p> <p>No</p>	
<b>ambient conditions</b>		
ambient temperature		
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during transport</li> <li>• during storage</li> </ul>	<p>-25 ... +70 °C; with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>	
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	
<b>connection method</b>		
type of electrical connection	screw terminal	
<ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> </ul>	<p>L, N, FE: 1 screw terminal each for 0.5 ... 2.5 mm<sup>2</sup> single-core/finely stranded</p> <p>+, -: 2 screw terminals each for 0.5 ... 2.5 mm<sup>2</sup></p>	
<b>mechanical data</b>		
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"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	<p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p>	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
<ul style="list-style-type: none"> <li>• DIN-rail mounting</li> <li>• S7 rail mounting</li> <li>• wall mounting</li> </ul>	<p>Yes</p> <p>No</p> <p>No</p>	
housing can be lined up	Yes	
net weight	0.32 kg	
<b>accessories</b>		
electrical accessories	Buffer module	
<b>further information internet links</b>		
internet link		
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: power supplies</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://siemens.com/sitop">https://siemens.com/sitop</a></p> <p><a href="https://siemens.com/cax">https://siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>	
<b>additional information</b>		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
<b>security information</b>		
security information	<p>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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
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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