



SITOP POWER/DC/DC/24V/12V/2.5A

\*\*\*\*\* spare part \*\*\*\*\* SITOP 2.5 A, DC/DC converter stabilized power supply input: 24 V DC output: 12 V DC/2.5 A

input	
type of the power supply network	DC voltage PELV/SELV
supply voltage at DC	24 V
input voltage at DC	18.5 ... 30.2 V
wide range input	No
input current	
• at rated input voltage 24 V	2.5 A
current limitation of inrush current at 25 °C maximum	20 A
duration of inrush current limiting at 25 °C	
• typical	5 ms
fuse protection type	not accessible
fuse protection type in the feeder	Recommended miniature circuit breaker: 10 A characteristic B
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 ... 14 V; max. 120 W
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.4 %
residual ripple	
• maximum	100 mV
• typical	50 mV
voltage peak	
• maximum	200 mV
• typical	50 mV
display version for normal operation	Green LED for 12 V OK
response delay maximum	0.5 s
voltage increase time of the output voltage	
• typical	300 ms
output current	
• rated value	2.5 A
• rated range	0 ... 2.5 A
short-term overload current	
• on short-circuiting during the start-up typical	3.3 A
• at short-circuit during operation typical	3.3 A

constant overload current	
• on short-circuiting during the start-up typical	3.3 A
• at short-circuit during operation typical	3.3 A
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
<b>efficiency</b>	
efficiency in percent	83 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	6.1 W
<b>closed-loop control</b>	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.5 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
• load step 50 to 100% typical	5 ms
• load step 100 to 50% typical	2 ms
setting time	
• maximum	5 ms
<b>protection and monitoring</b>	
design of the overvoltage protection	< 24 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic approx. 3.2 A
response value current limitation	3 ... 3.6 A
• typical	3.3 A
enduring short circuit current RMS value	
• typical	3.2 A
display version for overload and short circuit	LED red for "overload"
<b>safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage $V_{out}$ according to EN 60950-1
operating resource protection class	Class II
protection class IP	IP20
<b>EMC</b>	
standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	-
• for interference immunity	EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cCSAus (UL 508, CSA22.2-107, UL60950-1, CSA22.2-60950-1)
• EAC approval	Yes
• NEC Class 2	No
type of certification	
• CB-certificate	No
MTBF at 40 °C	563 793 h
<b>standards, specifications, approvals hazardous environments</b>	
certificate of suitability	
• IECEx	No
• ATEX	No
• ULhazloc approval	No
• FM registration	No
<b>standards, specifications, approvals marine classification</b>	
shipbuilding approval	No
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No

<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
	No
<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>	0 ... 60 °C; with natural convection -40 ... +85 °C -40 ... +85 °C
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> <li>• for auxiliary contacts</li> </ul>	+, -: 1 screw terminal each for 0.5 ... 2.5 mm <sup>2</sup> +, -: 2 screw terminals each for 0.5 ... 2.5 mm <sup>2</sup> -
<b>mechanical data</b>	
width × height × depth of the enclosure	32.5 × 125 × 125 mm
installation width × mounting height	32.5 mm × 225 mm
required spacing	
<ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	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"> <li>• DIN-rail mounting</li> <li>• S7 rail mounting</li> <li>• wall mounting</li> </ul>	Yes No No
housing can be lined up	Yes
net weight	0.32 kg
<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 website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://siemens.com/cax">https://siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<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](#)



[China RoHS](#)



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