



SITOP POWER/DC/DC/48V/24V/2A

***** spare part ***** SITOP power 2 A, DC/DC stabilized power supply
input: 48/60/110 V DC output: 24 V DC/2 A

input	
type of the power supply network	DC voltage
supply voltage at DC	48 ... 110 V
input voltage at DC	38 ... 121 V
wide range input	Yes
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	1.2 A
• at rated input voltage 110 V	0.5 A
current limitation of inrush current at 25 °C maximum	33 A
fuse protection type	T 2.5 A (not accessible)
fuse protection type in the feeder	Recommended miniature circuit breaker: 10 to 25 A characteristic B or 6 to 25 A characteristic C, suitable for DC
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	23.5 ... 26.5 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	0.4 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	300 mV
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of V_{out} on startup max. 25 V
response delay maximum	3 s
voltage increase time of the output voltage	
• typical	30 ms
output current	
• rated value	2 A
• rated range	0 ... 2 A
supplied active power typical	48 W

bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	84 %
power loss [W]	9 W
<ul style="list-style-type: none"> at rated output voltage for rated value of the output current typical 	
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	0.8 %
setting time	
<ul style="list-style-type: none"> load step 50 to 100% typical 	2.5 ms
<ul style="list-style-type: none"> load step 100 to 50% typical 	2.5 ms
protection and monitoring	
design of the overvoltage protection	Yes, suppressor diode at output
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
response value current limitation	2.1 ... 3 A
enduring short circuit current RMS value	
<ul style="list-style-type: none"> maximum 	2 A
safety	
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 I
leakage current	
<ul style="list-style-type: none"> maximum 	3.5 mA
<ul style="list-style-type: none"> typical 	0.7 mA
protection class IP	IP20
EMC	
standard	
<ul style="list-style-type: none"> for emitted interference 	EN 55022 Class B
<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. 142), File E179336
<ul style="list-style-type: none"> EAC approval 	Yes
<ul style="list-style-type: none"> NEC Class 2 	No
type of certification	
<ul style="list-style-type: none"> CB-certificate 	No
MTBF at 40 °C	1 580 078 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	No
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) 	No
<ul style="list-style-type: none"> French marine classification society (BV) 	No
<ul style="list-style-type: none"> Det Norske Veritas (DNV) 	No
<ul style="list-style-type: none"> Lloyds Register of Shipping (LRS) 	No
ambient conditions	
ambient temperature	

<ul style="list-style-type: none"> during operation during transport during storage 	0 ... 70 °C; with natural convection -40 ... +70 °C -40 ... +70 °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 	L+, M1, PE: 1 screw terminal each for 2 x 0.5 ... 2.5/1.5 mm ² single-core/finely stranded
<ul style="list-style-type: none"> at output 	L+, M: 1 screw terminal each for 2 x 0.5 ... 2.5 mm ²
<ul style="list-style-type: none"> for auxiliary contacts 	-

mechanical data

width × height × depth of the enclosure	80 × 135 × 120 mm
installation width × mounting height	80 mm × 235 mm
required spacing	
<ul style="list-style-type: none"> top 	50 mm
<ul style="list-style-type: none"> bottom 	50 mm
<ul style="list-style-type: none"> left 	0 mm
<ul style="list-style-type: none"> right 	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x15
<ul style="list-style-type: none"> DIN-rail mounting 	Yes
<ul style="list-style-type: none"> S7 rail mounting 	No
<ul style="list-style-type: none"> wall mounting 	No
housing can be lined up	Yes
net weight	0.5 kg

further information internet links

internet link	
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	https://siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com

additional information

other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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security information

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 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)</p>
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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](#)



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