



SITOP PSU100P/1AC/24VDC/5A/IP67

SITOP PSU100P IP67 Stabilized power supply input: 120/230 V AC, output: 24 V DC/5 A

input	
type of the power supply network	1-phase AC
supply voltage at AC	Automatic range selection
supply voltage	120 V/230 V
input voltage 1 at AC	85 ... 132 V
input voltage 2 at AC	170 ... 264 V
wide range input	No
overvoltage overload capability	Implemented internally with varistor
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at $V_{in} = 120/230 \text{ V}$
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	2.25 A
• at rated input voltage 230 V	1.24 A
current limitation of inrush current at 25 °C maximum	15 A
I^2t value maximum	0.6 A ² s
fuse protection type	T 3.15 A
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C/B
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	No
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	0.2 %
residual ripple	
• maximum	50 mV
voltage peak	
• maximum	100 mV
display version for normal operation	Green LED: 24 V OK; red LED flashing: "overload/short-circuit"
type of signal at output	Relay contact (NO contact, rating 30 V AC/ 0.5 A; 30 V DC/1 A) for 24 V OK
behavior of the output voltage when switching on	Overshoot of $V_{out} < 3 \%$
response delay maximum	1.5 s
voltage increase time of the output voltage	
• typical	22 ms

• maximum	100 ms
output current	
• rated value • rated range	5 A 0 ... 5 A
supplied active power typical	133 W
short-term overload current	
• on short-circuiting during the start-up typical • at short-circuit during operation typical	20 A 20 A
duration of overloading capability for excess current	
• on short-circuiting during the start-up • at short-circuit during operation	50 ms 50 ms
bridging of equipment	Yes; Symmetric wiring required
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	90 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	12.9 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
• maximum	2 ms
protection and monitoring	
design of the overvoltage protection	< 29 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
• typical	5.5 A
enduring short circuit current RMS value	
• maximum • typical	6 A 5 A
display version for overload and short circuit	Red LED flashing for "overload/short-circuit"
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum • typical	3.5 mA 1 mA
protection class IP	IP67
EMC	
standard	
• for emitted interference • for mains harmonics limitation • for interference immunity	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
• CE marking • UL approval • CSA approval • EAC approval • NEC Class 2	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1) Yes No
type of certification	
• CB-certificate	No
MTBF at 40 °C	1 500 000 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No

• ATEX • ULhazloc approval • cCSAus, Class 1, Division 2 • FM registration	No
standards, specifications, approvals marine classification	No
shipbuilding approval	No
Marine classification association	No
• American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Lloyds Register of Shipping (LRS)	No
ambient conditions	
ambient temperature	
• during operation • during transport • during storage	-25 ... +60 °C; with natural convection -40 ... +85 °C -40 ... +85 °C
environmental category according to IEC 60721	3K6 without direct sunlight
connection method	
type of electrical connection	screw terminal
• at input • at output • for auxiliary contacts	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)") +, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)") Alarm signals: M12 plug-in connector 4-pin
removable terminal at input	Yes
removable terminal at output	Yes
mechanical data	
width × height × depth of the enclosure	120 × 181 × 60.5 mm
installation width × mounting height	120 mm
required spacing	
• top • bottom • left • right	50 mm 0 mm 0 mm 0 mm
fastening method	Wall mounting
• standard rail mounting • S7 rail mounting • wall mounting	No No Yes
housing can be lined up	Yes
net weight	1.1 kg
further information internet links	
internet link	
• to website: Industry Mall • to website: Industrial communication • to website: CAx-Download-Manager • to website: Industry Online Support	https://mall.industry.siemens.com https://siemens.com/industrial-communication 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	
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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	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](#)

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