



SITOP PSU100C/1ACDC/24VDC/0.6A

SITOP PSU100C 24 V/0.6 A stabilized power supply input: 100-230 V AC (110-300 V DC) output: 24 V DC/0.6 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	230 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	$2.3 \times V_{in}$ rated, 1.3 ms
operating condition of the mains buffering	at $V_{in} = 230$ V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at $V_{in} = 230$ V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 100 V	0.28 A
• at rated input voltage 230 V	0.18 A
current limitation of inrush current at 25 °C maximum	28 A
I ² t value maximum	0.7 A ² ·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic 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
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	200 mV
• typical	40 mV
voltage peak	
• maximum	300 mV

• typical	20 mV
product function output voltage adjustable	No
type of output voltage setting	-
display version for normal operation	Green LED for output voltage OK
behavior of the output voltage when switching on	Overshoot of Vout approx. 5 %
response delay maximum	1 s
voltage increase time of the output voltage	
• typical	25 ms
output current	
• rated value	0.6 A
• rated range	0 ... 0.6 A
supplied active power typical	14 W
short-term overload current	
• at short-circuit during operation typical	1 A
product feature	
• bridging of equipment	No
Efficiency	
efficiency in percent	82 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	2.6 W
• during no-load operation maximum	0.75 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
• load step 10 to 90% typical	3 ms
• load step 90 to 10% typical	3 ms
Protection and monitoring	
design of the overvoltage protection	Yes, according to EN 60950-1
• typical	0.7 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
display version for overload and short circuit	-
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	0.4 mA
protection class IP	IP20
Approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)
• NEC Class 2	Yes; according to UL1310, File E151273
• EAC approval	Yes
type of certification	
• CB-certificate	Yes
certificate of suitability	
• IECEx	No
• ATEX	No
• ULhazloc approval	No
• cCSAus, Class 1, Division 2	No

• FM registration	No
certificate of suitability shipbuilding approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• French marine classification society (BV)	No
• Lloyds Register of Shipping (LRS)	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	not applicable
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
• during operation	-20 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	L, N, PE: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm ²
• at output	+: 1 screw terminal for 0.5 ... 2.5 mm ² ; -: 2 screw terminals for 0.5 ... 2.5 mm ²
• for auxiliary contacts	-
width of the enclosure	22.5 mm
height of the enclosure	80 mm
depth of the enclosure	100 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.12 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Removable spring-type terminal 6EP1971-5BA00
MTBF at 40 °C	3 910 833 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

