



Figure similar

SITOP POWER/DC/DC/48-220V/24V/0.375A

SITOP power 0.375 A, DC/DC Stabilized power supply input: 48-220V DC output: DC 24 V/0,375 A

Input	
type of the power supply network	DC voltage
supply voltage at AC	
• initial value	30 V
• full-scale value	187 V
supply voltage	
• at DC	48 ... 220 V
input voltage	
• at DC	30 ... 264 V
design of input wide range input	Yes
overvoltage overload capability	-
operating condition of the mains buffering	at $V_{in} = 220\text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	10 ms
operating condition of the mains buffering	at $V_{in} = 220\text{ V}$
input current	
• at rated input voltage 48 V	0.3 A
• at rated input voltage 220 V	0.06 A
current limitation of inrush current at 25 °C maximum	35 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I ² t value maximum	1.2 A ² ·s
fuse protection type	F 4 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 6 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
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	0.1 %
residual ripple	
• maximum	150 mV
• typical	50 mV
voltage peak	
• maximum	240 mV
• typical	50 mV

product function output voltage adjustable	No
type of output voltage setting	-
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	2.5 s
voltage increase time of the output voltage	
• typical	90 ms
output current	
• rated value	0.375 A
• rated range	0 ... 0.375 A; +60 ... +70 °C: Derating 3%/K
supplied active power typical	9 W
short-term overload current	
• at short-circuit during operation typical	2.7 A
duration of overloading capability for excess current	
• at short-circuit during operation	200 ms
product feature	
• bridging of equipment	No
Efficiency	
efficiency in percent	66 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	4.6 W
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	0.4 %
setting time	
• load step 50 to 100% typical	2 ms
• load step 100 to 50% typical	2 ms
Protection and monitoring	
design of the overvoltage protection	Yes, according to EN 60950-1
response value current limitation	0.41 ... 0.49 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
• maximum	0.9 A
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
protection class IP	IP20
Approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
• NEC Class 2	No
• ULhazloc approval	No
• FM registration	No
type of certification CB-certificate	No
certificate of suitability	
• EAC approval	Yes

certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No
• DNV GL	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	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	-25 ... +70 °C; with natural convection
• during transport	-40 ... +70 °C
• during storage	-40 ... +70 °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+1, M1, PE: 1 screw terminal each for 0.5 ... 2.5 mm ² single-core/finely stranded
• 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	91 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.14 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 466 123 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

