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Data sheet 6EP1732-0AA00

SITOP POWER/DC/DC/48V/24V/2A
SITOP power 2 A, DC/DC Stabilized power supply input: 48/60/110 V
DC output: 24 V DC/2 A



Input	
Input	DC voltage
supply voltage	
• at DC	48 ... 110 V
input voltage	
• at DC	38 ... 121 V
Wide-range input	Yes
Overvoltage resistance	-
Mains buffering	at Vin = 48 V
Mains buffering at Iout rated, min.	5 ms; at Vin = 48 V
input current	
• at rated input voltage 48 V	1.2 A
• at rated input voltage 110 V	0.5 A
Switch-on current limiting (+25 °C), max.	33 A
Built-in incoming fuse	T 2.5 A (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: 10 to 25 A characteristic B or 6 to 25 A characteristic C, suitable for DC

Output	
Output	Controlled, isolated DC voltage

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Rated voltage Vout DC	24 V
Total tolerance, static ±	1 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.4 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Adjustment range	23.5 ... 26.5 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
On/off behavior	Overshoot of Vout on startup max. 25 V
Startup delay, max.	3 s
Voltage rise, typ.	30 ms
Rated current value Iout rated	2 A
Current range	0 ... 2 A
supplied active power typical	48 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	84 %
Power loss at Vout rated, Iout rated, approx.	9 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	0.8 %
Load step setting time 50 to 100%, typ.	2.5 ms
Load step setting time 100 to 50%, typ.	2.5 ms
Protection and monitoring	
Output overvoltage protection	Yes, suppressor diode at output
Current limitation	2.1 ... 3 A
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
• maximum	2 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
leakage current	

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• maximum	3.5 mA
• typical	0.7 mA
Degree of protection (EN 60529)	IP20

Approvals	
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E179336
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	No
Marine approval	-

EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2

environmental conditions	
ambient temperature	
• during operation	0 ... 70 °C
— Note	with natural convection
• during transport	-40 ... +70 °C
• during storage	-40 ... +70 °C
Humidity class according to EN 60721	Climate class 3K3, 5 … 95% no condensation

Mechanics	
Connection technology	screw-type terminals
Connections	
• Supply input	L+, M1, PE: 1 screw terminal each for 2 x 0.5 ... 2.5/1.5 mm² single-core/finely stranded
• Output	L+, M: 1 screw terminal each for 2 x 0.5 ... 2.5 mm²
• Auxiliary	-
width of the enclosure	80 mm
height of the enclosure	135 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.5 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x15

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MTBF at 40 °C	1 580 078 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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