6EP4333-0SB00-0AY0

Data sheet



SITOP PSU2600/1ACDC/24VDC/5A

SITOP PSU2600 24 V/5 A Stabilized power supply input: 230 V AC output: 24 V DC/5 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
minimum rated value	120 V
 maximum rated value 	230 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	110 220 V
input voltage	
• at DC	88 265 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 230 V
buffering time for rated value of the output current in the event of power failure minimum	30 ms
operating condition of the mains buffering	at Vin = 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 120 V 	2.5 A
 at rated input voltage 230 V 	1.4 A
current limitation of inrush current at 25 °C maximum	36 A
fuse protection type	3.15 A
• in the feeder	None required. Fuse protection starting from 6 A Char. C possible
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	50 mV
voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V

mand out formation as the standard adjustable	Vee
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer; max. 120 W
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1 s
voltage increase time of the output voltage	
• maximum	500 ms
output current	
rated value	5 A
rated range	0 5 A; +60 °C
supplied active power typical	120 W
constant overload current	
 on short-circuiting during the start-up typical 	6 A
product feature	
 bridging of equipment 	No
Efficiency	
efficiency in percent	89 %
power loss [W]	
at rated output voltage for rated value of the output	15 W
current typical	
during no-load operation maximum	1 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
load step 50 to 100% typical	0.2 ms
● load step 100 to 50% typical	0.2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
load step 10 to 90% typical	0.2 ms
load step 90 to 10% typical	0.2 ms
• maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
response value current limitation typical	6 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Shutdown and periodic restart attempts
enduring short circuit current RMS value	onataown and periodic restart attempts
-	6 A
• typical	υΛ
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
typical	1.1 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
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
cCSA approval cCSAus, Class 1, Division 2	No
CCSAus, Class 1, Division 2 ATEX	No
	INU
certificate of suitability	No
• IECEx	No

NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	163
EAC approval	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	NO
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) Nippen Keiji Kuckei (NK)	No No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	0 60 °C; with natural convection
 during transport 	-40 +85 °C
during storage	-40 +85 °C
environmental category acc. to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	L1, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.2 2.5 mm²
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.05 2.5 mm ²
width of the enclosure	42 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
 • top 	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.6 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

