SIEMENS

Data sheet 6EP4333-0SB00-0AY0

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

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 current typical	15 W
● during no-load operation maximum	1 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 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
● 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	
● typical	6 A
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
● 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	Yes
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	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 according 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 mm²
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)