SIEMENS

Data sheet

6EP4436-0SB00-0AY0



SITOP PSU2600/1ACDC/24VDC/20A

SITOP PSU2600 24 V/20 A Stabilized power supply input: 3 AC 400-500 V output: 24 V DC/20 A

Input	
type of the power supply network	3-phase AC
supply voltage at AC	
minimum rated value	400 V
maximum rated value	500 V
initial value	340 V
• full-scale value	575 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 400 V
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 400 V 	1.2 A
 at rated input voltage 500 V 	1 A
current limitation of inrush current at 25 °C maximum	16 A
l2t value maximum	0.8 A ² ·s
fuse protection type	none
• in the feeder	Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A), 3RV2021-1HA (setting 8 A) or 3RV2711-1DD10 (UL 489)
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	2 %
relative control precision of the output voltage	
 on slow fluctuation of input voltage 	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. 480 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	2.5 s
voltage increase time of the output voltage	
• maximum	500 ms
output current	
rated value	20 A
rated range	0 20 A; +60 °C
supplied active power typical	480 W
short-term overload current	
 at short-circuit during operation typical 	60 A
duration of overloading capability for excess current	
at short-circuit during operation	25 ms
constant overload current	
 on short-circuiting during the start-up typical 	23 A
product feature	
 bridging of equipment 	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	93 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	36 W
 during no-load operation maximum 	4 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	2 %
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	3 %
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	23 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic approx. 23 A
enduring short circuit current RMS value	
• typical	23 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	1.7 mA
protection class IP	IP20
Approvals	
certificate of suitability	
CE marking	Yes
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UL approval CSA 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, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.2 4 mm ²
for auxiliary contacts	Signal and remote: 1 screw terminal each for 0.14 1.5 mm ²
width of the enclosure	90 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	1.3 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)

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