SIEMENS

Data sheet

6EP3336-3SB00-0AX0



SITOP PSU4200/1AC/24VDC/20A

SITOP PSU4200 1AC 24 V/20 A stabilized power supply PSU4200 input: 120/240 V AC output: 24 V DC/20 A

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
 minimum rated value 	100 V
 maximum rated value 	240 V
• initial value	85 V; Automatic range selection
• full-scale value	264 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 120/240 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 = 120/240 V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 100 V 	5.4 A
 at rated input voltage 120 V 	4.5 A
 at rated input voltage 230 V 	2.4 A
 at rated input voltage 240 V 	2.3 A
current limitation of inrush current at 25 °C maximum	20 A
duration of inrush current limiting at 25 °C	
typical	40 ms
I2t value maximum	3 A ² ·s
fuse protection type	10 A
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C to from 16 A characteristic C
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 	0.2 %
 on slow fluctuation of ohm loading 	0.3 %
residual ripple	
• maximum	150 mV
• typical	35 mV
voltage peak	



• maximum	240 mV
• typical	67 mV
adjustable output voltage	24 28 V
product function output voltage adjustable	24 20 V Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
	Signal contact (signal load capacity: 10 mA) for DC OK
type of signal at output	
behavior of the output voltage when switching on	No overshoot of Vout (soft start) 1.5 s
response delay maximum voltage increase time of the output voltage	1.0.5
	33 ms
• typical	500 ms
maximum	500 ms
output current	20.4
rated value	20 A
rated range	0 20 A; +60 +70 °C: Derating 2.5%/K 480 W
supplied active power typical	480 W
product feature	Nee.
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 	39 W
current typical during no-load operation maximum 	3 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.2 %
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 %
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 	1 ms
 load step 90 to 10% typical 	1 ms
Protection and monitoring	
design of the overvoltage protection	< 32 V
• typical	23.1 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	ES1 output voltage Vout according to EN 62368-1 (Safety extra low output
	voltage Vout according to EN 60950-1)
operating resource protection class	Class I
leakage current	
• maximum	0.7 mA
● typical	0.5 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; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
NEC Class 2	No
UKCA marking	Yes
EAC approval	Yes
Regulatory Compliance Mark (RCM)	Yes



1/1/2024

type of certification	
• BIS	No
CB-certificate	Yes
certificate of suitability	
• IECEx	No
• ATEX	No
 ULhazloc approval 	No
 cCSAus, Class 1, Division 2 	No
FM registration	No
certificate of suitability shipbuilding approval	No
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
 French marine classification society (BV) 	No
 Lloyds Register of Shipping (LRS) 	No
EMC	
standard	
 for emitted interference 	EN 55032
 for mains harmonics limitation 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °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	push-in terminals
at input	L, N, PE: push-in for 0.5 4 mm ²
• at output	+, -: push-in for 0.5 6 mm ²
for signaling contact	13, 14: push-in for 0.2 1.5 mm ²
width of the enclosure	70 mm
height of the enclosure	135 mm
depth of the enclosure	125 mm
required spacing	
• top	45 mm
bottom	45 mm
• left	0 mm
• right	0 mm
net weight	0.93 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	1 068 034 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



