## **SIEMENS**

Data sheet 6EP1336-3BA10



## SITOP PSU8200/1ACDC/24VDC/20A

SITOP PSU8200 20 A stabilized power supply input: 120-230 V AC 110-220 V DC output: 24 V DC/20 A \*Ex approval no longer available\*

Input	
type of the power supply network	1-phase and 2-phase AC or DC
supply voltage at AC	
minimum rated value	120 V
<ul> <li>maximum rated value</li> </ul>	230 V
• initial value	85 V
• full-scale value	275 V
supply voltage	
• at DC	110 220 V
input voltage	
• at DC	88 350 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	20 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	
<ul> <li>at rated input voltage 120 V</li> </ul>	4.6 A
at rated input voltage 230 V	2.5 A
current limitation of inrush current at 25 °C maximum	20 A
12t value maximum	5 A²-s
fuse protection type	Yes
• in the feeder	Recommended miniature circuit breaker at 1-phase operation: 10 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2711-1HD10 (UL 489) at 120 V or 3RV2711-1ED10 (UL 489) at 230 V
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	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
on slow fluctuation of ohm loading	0.3 %
residual ripple	
• maximum	100 mV

• typical	80 mV
• typical	OU IIIV
voltage peak	200 \
• maximum	200 mV
• typical	100 mV
adjustable output voltage	24 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
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	1.5 s
voltage increase time of the output voltage	
• typical	250 ms
output current	
rated value	20 A
rated range	0 20 A; +60 +70 °C: Derating 3%/K
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	30 A
product feature	
<ul> <li>bridging of equipment</li> </ul>	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	94 %
power loss [W]	
at rated output voltage for rated value of the output current typical	31 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.5 %
	0.5 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical	
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	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 setting time • load step 50 to 100% typical	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 setting time  • load step 50 to 100% typical • load step 100 to 50% typical	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 setting time  • load step 50 to 100% typical • load step 100 to 50% typical setting time	1 % 1 ms 1 ms
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time  • load step 50 to 100% typical • load step 100 to 50% typical setting time  • maximum  Protection and monitoring	1 % 1 ms 1 ms
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum  Protection and monitoring design of the overvoltage protection	1 %  1 ms 1 ms 5 ms  < 31.8 V
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum  Protection and monitoring design of the overvoltage protection • typical	1 % 1 ms 1 ms 5 ms
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	1 %  1 ms 1 ms 5 ms  < 31.8 V 21.5 A
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	1 ms 1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum  Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value	1 ms 1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	1 ms 1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching shutdown  21.5 A
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	1 ms 1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching shutdown  21.5 A overload capability 150 % lout rated up to 5 s/min
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum  Protection and monitoring design of the overvoltage protection • typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit	1 ms 1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching shutdown  21.5 A
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching shutdown  21.5 A overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"
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fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching shutdown  21.5 A overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"  Yes Class I  3.5 mA
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time  • load step 50 to 100% typical • load step 100 to 50% typical setting time  • maximum  Protection and monitoring  design of the overvoltage protection • typical  property of the output short-circuit proof design of short-circuit protection  enduring short circuit current RMS value • typical overcurrent overload capability in normal operation display version for overload and short circuit  Safety  galvanic isolation between input and output operating resource protection class leakage current • maximum • typical	1 ms 1 ms 5 ms  < 31.8 V 21.5 A Yes Alternatively, constant current characteristic approx. 21.5 A or latching shutdown  21.5 A overload capability 150 % lout rated up to 5 s/min LED yellow for "overload", LED red for "latching shutdown"  Yes Class I  3.5 mA 1 mA
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• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
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NEC Class 2	No
UKCA marking	Yes
EAC approval	Yes
Regulatory Compliance Mark (RCM)	Yes
type of certification	
• BIS	Yes; R-41183539
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	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
Lloyds Register of Shipping (LRS)	No
EMC	110
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-5-2 EN 61000-6-2
environmental conditions	LN 01000-0-2
ambient temperature	
during operation	-25 +70 °C; With natural convection; startup tested starting from -40 °C
	nominal voltage
<ul> <li>during transport</li> </ul>	-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	L, N, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.2 4 mm <sup>2</sup>
for auxiliary contacts	13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>
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	1.2 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	583 500 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
	Official mise specified)

