## 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	
<ul> <li>minimum rated value</li> </ul>	120 V
<ul> <li>maximum rated value</li> </ul>	230 V
• initial value	85 V; Derating of temperature necessary down to 50 $^\circ\mathrm{C}$ at Vin < 100 V AC or DC
• 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	
<ul> <li>1 rated value</li> </ul>	50 Hz
<ul> <li>2 rated value</li> </ul>	60 Hz
line frequency	45 65 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	4.6 A
<ul> <li>at rated input voltage 230 V</li> </ul>	2.5 A
current limitation of inrush current at 25 °C maximum	20 A
I2t 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

voltage peak	
• maximum	200 mV
• typical	100 mV
adjustable output voltage	24 28.8 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	50 ms
output current	
<ul> <li>rated value</li> </ul>	20 A
<ul> <li>rated range</li> </ul>	0 20 A; +60 +70 °C: Derating 3%/K
supplied active power typical	480 W
short-term overload current	
<ul> <li>at short-circuit during operation typical</li> </ul>	60 A
duration of overloading capability for excess current	
<ul> <li>at short-circuit during operation</li> </ul>	25 ms
constant overload current	
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	30 A
product feature	
<ul> <li>bridging of equipment</li> </ul>	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	93 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output</li> </ul>	42 W
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid	0.5 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical	
setting time	
<ul> <li>load step 50 to 100% typical</li> </ul>	1 ms
<ul> <li>load step 100 to 50% typical</li> </ul>	1 ms
setting time	
• maximum	5 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
• typical	21.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 23 A or latching
- •	shutdown
enduring short circuit current RMS value	
• typical	23 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	1 mA
protection class IP	IP20
Approvals	
certificate of suitability	
Solution of outdointy	
-	Yes
• CE marking	Yes Yes: ctillus-Listed (UL 508, CSA C22.2 No. 107.1), File F197259
-	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)

CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
-	Yes
type of certification CB-certificate	Tes
certificate of suitability	
• EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
• DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
	EN 61000-6-2
for interference immunity	EN 01000-0-2
environmental conditions	
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +70 °C; With natural convection; startup tested starting from -40
	°C nominal voltage
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	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>
<ul> <li>for auxiliary contacts</li> </ul>	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>
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width of the enclosure	90 mm
-	
width of the enclosure height of the enclosure	90 mm
width of the enclosure height of the enclosure depth of the enclosure	90 mm 125 mm
width of the enclosure height of the enclosure depth of the enclosure required spacing	90 mm 125 mm 125 mm
width of the enclosure height of the enclosure depth of the enclosure required spacing • top	90 mm 125 mm 125 mm 50 mm
width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom	90 mm 125 mm 125 mm 50 mm
width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left	90 mm 125 mm 125 mm 50 mm 50 mm 0 mm
width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right	90 mm 125 mm 125 mm 50 mm 50 mm 0 mm 0 mm
width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight	90 mm 125 mm 125 mm 50 mm 50 mm 0 mm 0 mm 1.2 kg
<ul> <li>width of the enclosure</li> <li>height of the enclosure</li> <li>depth of the enclosure</li> <li>required spacing <ul> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul> </li> <li>net weight</li> <li>product feature of the enclosure housing can be lined up</li> </ul>	90 mm 125 mm 125 mm 50 mm 0 mm 0 mm 1.2 kg Yes
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