## 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
maximum rated value	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
<ul> <li>at rated input voltage 230 V</li> </ul>	2.5 A
current limitation of inrush current at 25 °C maximum	20 A
l2t value maximum	5 A <sup>2.</sup> 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	
<ul> <li>at output 1 at DC rated value</li> </ul>	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 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.3 %
residual ripple	
• maximum	100 mV

typical	80 mV
voltage peak	
• 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	
<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	
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	2
Efficiency	
efficiency in percent	04.0/
	54 70 
power ioss [w]	21 \\\/
current typical	
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.5 %
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical	0.5 %
relative control precision of the output voltage with rapid 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	0.5 %
relative control precision of the output voltage with rapid 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	0.5 % 1 % 1 ms
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relative control precision of the output voltage with rapid 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	0.5 % 1 % 1 ms 1 ms 5 ms < 31.8 V
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relative control precision of the output voltage with rapid 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	0.5 % 1 % 1 ms 1 ms 5 ms < 31.8 V 21.5 A Yes
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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)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
NEC Class 2	No
UKCA marking	Yes
EAC approval	Yes
<ul> <li>Regulatory Compliance Mark (RCM)</li> </ul>	Yes
type of certification	
• BIS	Yes; R-41183539
CB-certificate	Yes
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
FM registration	No
certificate of suitability shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
EMC	
standard	
for emitted interference	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
• for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
<ul><li>ambient temperature</li><li>during operation</li></ul>	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage
<ul><li>ambient temperature</li><li>during operation</li><li>during transport</li></ul>	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage -40 +85 °C
ambient temperature <ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage -40 +85 °C -40 +85 °C
ambient temperature <ul> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul> <li>environmental category according to IEC 60721</li>	<ul> <li>-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul>
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ambient temperature  • during operation  • during transport • during storage environmental category according to IEC 60721  Mechanics  type of electrical connection • at input • at output • for auxiliary contacts  width of the enclosure height of the enclosure depth of the enclosure	<ul> <li>-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals L, N, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm <sup>2</sup> 13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup> 90 mm 125 mm 125 mm
ambient temperature  • during operation  • during transport • during storage environmental category according to IEC 60721  Mechanics  type of electrical connection • at input • at output • for auxiliary contacts  width of the enclosure height of the enclosure height of the enclosure required spacing	<ul> <li>-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals <ul> <li>L, N, PE: 1 screw terminal each for 0.2 4 mm<sup>2</sup> single-core/finely stranded</li> <li>+, -: 2 screw terminals each for 0.2 4 mm<sup>2</sup></li> <li>13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup></li> <li>90 mm</li> <li>125 mm</li> </ul>
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ambient temperature         • during operation         • during transport         • during storage         environmental category according to IEC 60721         Mechanics         type of electrical connection         • at input         • at output         • for auxiliary contacts         width of the enclosure         height of the enclosure         depth of the enclosure         required spacing         • top         • bottom         • left         • right         net weight         product feature of the enclosure housing can be lined up	<ul> <li>-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals <ul> <li>L, N, PE: 1 screw terminal each for 0.2 4 mm<sup>2</sup> single-core/finely stranded</li> <li>+, -: 2 screw terminals each for 0.2 4 mm<sup>2</sup></li> <li>13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup></li> <li>90 mm</li> <li>125 mm</li> <li>50 mm</li> <li>50 mm</li> <li>0 mm</li> <li>0 mm</li> <li>1.2 kg</li> <li>Yes</li> <li>Snaps onto DIN rail EN 60715 35x7.5/15</li> </ul>
ambient temperature         • during operation         • during transport         • during storage         environmental category according to IEC 60721         Mechanics         type of electrical connection         • at input         • at output         • for auxiliary contacts         width of the enclosure         height of the enclosure         depth of the enclosure         required spacing         • top         • bottom         • left         • right         net weight         product feature of the enclosure housing can be lined up         fastening method         electrical accessories	<ul> <li>-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals <ul> <li>L, N, PE: 1 screw terminal each for 0.2 4 mm<sup>2</sup> single-core/finely stranded</li> <li>+, -: 2 screw terminals each for 0.2 4 mm<sup>2</sup></li> <li>13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup></li> <li>90 mm</li> <li>125 mm</li> <li>50 mm</li> <li>50 mm</li> <li>0 mm</li> <li>0 mm</li> <li>1.2 kg</li> <li>Yes</li> <li>Snaps onto DIN rail EN 60715 35x7.5/15</li> <li>Buffer module</li> </ul>
ambient temperature         • during operation         • during transport         • during storage         environmental category according to IEC 60721         Mechanics         type of electrical connection         • at input         • at output         • for auxiliary contacts         width of the enclosure         height of the enclosure         depth of the enclosure         • top         • bottom         • left         • right         net weight         product feature of the enclosure housing can be lined up         fastening method         electrical accessories         mechanical accessories	<ul> <li>-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals <ul> <li>L, N, PE: 1 screw terminal each for 0.2 4 mm<sup>2</sup> single-core/finely stranded</li> <li>+, -: 2 screw terminals each for 0.2 4 mm<sup>2</sup></li> <li>13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup></li> <li>90 mm</li> <li>125 mm</li> <li>50 mm</li> <li>50 mm</li> <li>0 mm</li> <li>0 mm</li> <li>1.2 kg</li> <li>Yes</li> <li>Snaps onto DIN rail EN 60715 35x7.5/15</li> <li>Buffer module</li> <li>Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20</li> </ul>
ambient temperature • during operation • during storage environmental category according to IEC 60721 Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up fastening method electrical accessories mechanical accessories MTBF at 40 °C	<ul> <li>-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul> screw-type terminals <ul> <li>L, N, PE: 1 screw terminal each for 0.2 4 mm<sup>2</sup> single-core/finely stranded</li> <li>+, -: 2 screw terminals each for 0.2 4 mm<sup>2</sup></li> <li>13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm<sup>2</sup></li> <li>90 mm</li> <li>125 mm</li> <li>50 mm</li> <li>50 mm</li> <li>0 mm</li> <li>0 mm</li> <li>1.2 kg</li> <li>Yes</li> <li>Snaps onto DIN rail EN 60715 35x7.5/15</li> <li>Buffer module</li> <li>Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20</li> <li>583 500 h</li> </ul>

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