## **SIEMENS**

Data sheet 6EP1336-3BA10

SITOP PSU8200 24 V/20 A SITOP PSU8200 20A STABILIZED POWER SUPPLY INPUT: 120-230 V AC 110-220 V DC OUTPUT: 24 V/20 A DC



-phase AC or DC
10 220 V
20 230 V
5 275 V
Derating of temperature necessary down to 50 °C at Vin < 100 V NC or DC
8 350 V
'es
0 ms; at Vin = 230 V
0 Hz
0 Hz
5 65 Hz
.6 A
5 A
0 A
22 36 36 36 36 36 36 36 36 36 36 36 36 36

l²t, max.	5 A <sup>2</sup> ·s
Built-in incoming fuse	Yes
Protection in the mains power input (IEC 898)	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

	120 V 01 3RV27 11-1ED10 (OL 409) at 230 V
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.3 %
Residual ripple peak-peak, max.	100 mV
Residual ripple peak-peak, typ.	80 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	100 mV
Adjustment range	24 28.8 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.25 s
Voltage rise, typ.	50 ms
Rated current value lout rated	20 A
Current range	0 20 A
• Note	+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
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	93 %
Power loss at Vout rated, lout rated, approx.	42 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	0.5 %

max.

Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %
Load step setting time 50 to 100%, typ.	1 ms
Load step setting time 100 to 50%, typ.	1 ms
Setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 33 V
Current limitation, typ.	21.5 A
Property of the output Short-circuit proof	Yes
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
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	1 mA
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	IECEx Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T3
FM approval	-
CB approval	No
Marine approval	GL, ABS
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature	
<ul><li>during operation</li></ul>	-25 +70 °C
<ul><li>during transport</li></ul>	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
<ul><li>Output</li></ul>	+, -: 2 screw terminals each for 0.2 4 mm²
• Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²
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
Weight, approx.	1.2 kg
Product feature of the enclosure housing for side-by- side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module
Mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
MTBF at 40 °C	667 048 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)