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

Input	1-phase AC or DC
Supply voltage	
• for DC	110 220 V
Rated voltage value Vin rated	120 230 V
Voltage range AC	85 275 V
• Note	Derating of temperature necessary down to 50 $^{\circ}$ C at Vin < 100 V AC or DC
Input voltage	
• for DC	88 350 V
Wide-range input	Yes
Mains buffering at lout rated, min.	20 ms; at Vin = 230 V
Rated line frequency	50 60 Hz
Rated line range	45 65 Hz
Input current	
 at rated input voltage 120 V 	4.6 A
• at rated input voltage 230 V	2.5 A
Switch-on current limiting (+25 °C), max.	20 A
I²t, max.	5 A ² ·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

Output

Output	Controlled, isolated DC voltage
Rated voltage Vout DC	Controlled, Isolated DC voltage 24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
	0.3 %
Static load balancing, approx.	
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
Active power supplied 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
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 ±	1 %
typ.	
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

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/CSA approval	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; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2 Group ABCD, T3
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
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

EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

Operating data	
Ambient temperature	
during operation	-25 +70 °C
— Note	with natural convection
during transport	-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
Output	+, -: 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
Weight, approx.	1.2 kg
Product property 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, pastel-turpuoise 3RT1900-1SB20
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)