## **SIEMENS**

Datasheet 6EP1437-3BA10

SITOP PSU8200 40 STABILIZED POWER SUPPLY INPUT: 400-500 V 3 AC OUTPUT: 24 V DC/40 A



Technical specifications	
Product	SITOP PSU8200
Power supply, type	24 V/40 A

Input	
Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	320 575 V
Wide-range input	Yes
Mains buffering at lout rated, min.	15 ms; at Vin = 400 V
Rated line frequency	50 60 Hz
Rated line range	47 63 Hz
Input current at rated input voltage 400 V Rated	2.6 A
value	
Input current at rated input voltage 500 V Rated	2.1 A
value	
Switch-on current limiting (+25 °C), max.	56 A
l²t, max.	2.24 A <sup>2</sup> ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)

Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %

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Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Adjustment range	24 28.8 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 960 W
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.	2.5 s
Voltage increase time of the output voltage maximum	500 ms
Rated current value lout rated	40 A
Current range	0 40 A
Note	+60 +70 °C: Derating 3.75%/K
Active power supplied typical	960 W
Constant overload current on short-circuiting during	44 A
the start-up typical	
Short-term overload current at short-circuit during	120 A
operation typical	
Duration of overloading capability for excess current	25 ms
at short-circuit during operation	
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.	92 %
Power loss at Vout rated, lout rated, approx.	83 W
Total loop at Yout lates, loat lates, approx.	35 11
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	1 %
max.	
Dynamic load smoothing (lout: 50/100/50 %), Uout ±	3 %
typ.	
Setting time maximum	10 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Current limitation, typ.	44 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 44 A or
· ·	latching shutdown
Enduring short circuit current RMS value typical	44 A
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Overcurrent overload capability in normal operation  Overload/short-circuit indicator	overload capability 150 % lout rated up to 5 s/min  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
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	ATEX (EX) II 3G Ex nA nC IIC T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
Certificate of suitability IECEx	No
Certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
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
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Operating data	05 70.00
Ambient temperature during operation	-25 +70 °C
• Note	with natural convection
Ambient temperature during transport	-40 +85 °C
Ambient temperature 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	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm <sup>2</sup> single-core/finely stranded
Connections Output	+, -: 2 screw terminals each for 0.33 10 mm²
Connections Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm <sup>2</sup>
Width of the enclosure	150 mm
Height of the enclosure	125 mm
Depth of the enclosure	150 mm
Weight, approx.	3.4 kg
Product property of the enclosure housing for side- by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
Electrical accessories	Buffer module
Mechanical accessories	Device identification label 20 mm × 7 mm, pastel-turpuoise 3RT1900-1SB20

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)