## **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

nput		
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 AC	temperature derating necessary at Uin<100 V AC or DC at 50 °C; additional derating at Uin<100 V: Uin=95 V Pa max=460 W, Uin=90 V Pa max=440 W, Uin=85 V Pa max=420 W	
supply voltage at DC	110 220 V	
input voltage at DC	88 350 V	
wide range input	Yes	
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	50/60 Hz	
line frequency	47 63 Hz	
input current		
<ul> <li>at rated input voltage 120 V</li> </ul>	4.6 A	
at rated input voltage 230 V	2.5 A	
current limitation of inrush current at 25 °C maximum	20 A	
I2t value maximum	5 A²-s	
fuse protection type	Yes	
fuse protection type 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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	24 28 V	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		
on slow fluctuation of input voltage	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	
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	250 mg	
• 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		
at short-circuit during operation typical	60 A	
duration of overloading capability for excess current	05	
at short-circuit during operation	25 ms	
constant overload current	20.4	
on short-circuiting during the start-up typical      bridging of equipment	30 A	
bridging of equipment	Yes; switchable characteristic	
the power	2	
efficiency		
efficiency in percent	94 %	
power loss [W]		
at rated output voltage for rated value of the output current typical	31 W	
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	< 31.8 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 21.5 A or latching shutdown	
• typical	21.5 A	
overcurrent overload capability		
in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	21.5 A	
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	SELV (ES1) output voltage Vout according to EN 61204-7, transformer according to EN 61558-2-16	
operating resource protection class	Class I	
leakage current		
• maximum	3.5 mA	
• typical	1 mA	
protection class IP	IP20	
EMC		
standard	EN FERRO CI. D	
• for emitted interference	EN 55022 Class B	
• for mains harmonics limitation	EN 61000-3-2	
for interference immunity	EN 61000-6-2	

standards, specifications, approvals			
certificate of suitability			
CE marking	Yes		
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)		
UKCA marking	Yes		
EAC approval	Yes		
Regulatory Compliance Mark (RCM)	Yes		
NEC Class 2	No		
• SEMI F47	Yes		
type of certification			
• BIS	Yes; R-41183539		
CB-certificate	Yes		
MTBF at 40 °C	583 500 h		
standards, specifications, approvals hazardous environments			
certificate of suitability			
• IECEx	No		
• ATEX	No		
ULhazloc approval	No		
• cCSAus, Class 1, Division 2	No		
FM registration	No		
standards, specifications, approvals marine classification			
shipbuilding approval	Yes		
Marine classification association			
American Bureau of Shipping Europe Ltd. (ABS)	Yes		
French marine classification society (BV)	No		
Det Norske Veritas (DNV)	Yes		
Lloyds Register of Shipping (LRS)	No		
standards, specifications, approvals Environmental Product Dec	claration		
Environmental Product Declaration	Yes		
global warming potential [CO2 eq]			
• total	989.5 kg		
during manufacturing	18.9 kg		
during operation	970 kg		
after end of life	0.27 kg		
ambient conditions			
ambient temperature			
during operation	-25 +70; With natural convection; startup tested starting from -40 °C nominal voltage		
during transport	-40 +85		
during storage	-40 +85		
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation		
connection method			
type of electrical connection	screw terminal		
• at input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded		
• at output	+, -: 2 screw terminals each for 0.2 4 mm²		
for auxiliary contacts	13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 1.5 mm²		
mechanical data			
width × height × depth of the enclosure	90 × 125 × 125 mm		
installation width × mounting height	90 mm × 225 mm		
required spacing			
● top	50 mm		
<ul><li>bottom</li></ul>	50 mm		
- Bottom	0 mm		
• left	0 mm		
	0 mm 0 mm		
• left			
● left ● right	0 mm		

wall mounting	No	
housing can be lined up	Yes	
net weight	1.2 kg	
accessories		
electrical accessories	Buffer module	
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	
further information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud	
<ul><li>to web page: power supplies</li></ul>	https://siemens.com/sitop	
<ul><li>to website: CAx-Download-Manager</li></ul>	https://siemens.com/cax	
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com	
additional information		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
security information		
acquirity information	Ciamana provides products and colutions with industrial substracturity functions	

security information

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Classifications

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

## Approvals Certificates

**General Product Approval** 



Manufacturer Declaration Declaration of Conformity







**General Product Approval** 

Marine / Shipping

**Environment** 



**BIS CRS** 







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