SIEMENS

Data sheet

6EP3337-8SB00-0AY0



SITOP PSU8200/1AC/24VDC/40A

SITOP PSU8200 24 V/40 A stabilized power supply input: 120/230 V AC output: 24 V DC/40 A

type of the power supply network	1-phase and 2-phase AC
supply voltage at AC	Automatic selection; startup starting from Ue ≥ 90/180 V
supply voltage	120 V/230 V
input voltage 1 at AC	85 132 V
input voltage 2 at AC	170 264 V
wide range input	No
buffering time for rated value of the output current in the event of power failure minimum	f 25 ms
operating condition of the mains buffering	at Vin = 230 V
line frequency	50/60 Hz
line frequency	45 65 Hz
input current	
at rated input voltage 120 V	15 A
at rated input voltage 230 V	9 A
current limitation of inrush current at 25 °C maximum	50 A
I2t value maximum	8 A ² ·s
fuse protection type	Yes
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: 16 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V)
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
at output 1 at DC rated value	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	24 28 V; max. 960 W
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 	0.1 %
residual ripple	
maximum	100 mV
• typical	50 mV
voltage peak	
• maximum	240 mV
• typical	220 mV
display version for normal operation	Green LED for 24 V OK; LED yellow for overload; LED red for short-circuit or latching shutdown

tupo of signal at output	Polov contact (NO contact refine COM/ DOMO A A) For HOAM ON
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	Overshoot of Vout approx. 3 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
• typical	30 ms
output current	
• rated value	40 A
rated range	0 40 A; +60 +70 °C: Derating 3%/K
supplied active power typical	960 W
short-term overload current	
 on short-circuiting during the start-up typical 	120 A
at short-circuit during operation typical	120 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	25 ms
at short-circuit during operation	25 ms
constant overload current	
on short-circuiting during the start-up typical	60 A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	92 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	82 W
during no-load operation maximum	6.8 W
closed-loop control	
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1.9 %
setting time	
● load step 50 to 100% typical	2 ms
● load step 100 to 50% typical	2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3.8 %
setting time	
• load step 10 to 90% typical	1 ms
 load step 90 to 10% typical 	1 ms
• maximum	1 ms
protection and monitoring	
design of the overvoltage protection	< 32 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 41 A or latching shutdown
• typical	41 A
overcurrent overload capability	
in normal operation	250% lout rated up to 25 ms, 150% lout rated up to 5 s/min
enduring short circuit current RMS value	
• typical	41 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown" or "short-circuit"
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
• maximum	0.1 mA
• typical	0.1 mA
protection class IP	IP20
EMC	
standard	
for emitted interference for mains harmonics limitation	EN 55022 Class B

certificate of suitability - CE marking -	for interference immunity	EN 61000-6-2
certificate of suitability CE marking Ves U. Li approval CSA approval CSA approval CSA (222 No. 60050-1, UL. 60650-1) Ves, ctUsus Listed (UL. 508, CSA (222 No. 107.1), File E197259, cCSAus (CSA (222 No. 60050-1, UL. 60650-1) Ves *CSA approval *CSA (222 No. 60050-1, UL. 60650-1) *CSA (222 No. 60050-1, UL. 60650-1) Ves *Regulation Compliance Mark (RCM) Ves *Regulation Compliance Mark (RCM) Ves *REC Class 2 No. *Ves Ret 1183539 *CSE certification *Ves *CSE certification *No. *CSE certification *CSE		
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CSA approval	•	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
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No	EAC approval	Yes
Type of cartification BIS CRE-cartificate Yes MTBF at 40 °C B38 156 h Sandards, specifications, approvals hazardous environments certificate of suitability ECECK No LICEK No LUbratice approval CREAR No CREAR No CREAR No CREAR No LUbratice approval CREAR No CREAT NO CREAR NO CREAR NO CREAT NO	 Regulatory Compliance Mark (RCM) 	Yes
BIS	NEC Class 2	No
### CE-certificate ### MTBF at 40 °C ### Standards, specifications, approvals hazardous environments certificate of suitability ### IECEX ### ATEX ### No ### ULhazdoc approval ### CH registration ### Standards, specifications, approvals marine classification ### specifications approvals marine classification ### ### Standards, specifications approvals marine classification ### Standards, specifications, approvals marine classification ### Premot marine classification accept (8V) ### Color No Standards, specifications, approvals marine classification ### Premot marine classification accept (8V) ### Color No Standards, specifications, approvals Environmental Product bed antibon ### Environmental Product Declaration ### Color No Standards, specifications, approvals Environmental Product bed antibon ### Environmental Product Declaration ### Color No Standards, specifications, approvals Environmental Product bed antibon ### Environmental Product Declaration ### Color No Standards, specifications, approvals Environmental Product bed antibon ### Environmental Product Declaration ### Color No Standards ### Color No Stand	type of certification	
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installation width × mounting height required spacing • top	mechanical data	
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 ● wall mounting housing can be lined up Yes 	-	Yes
housing can be lined up Yes	S7 rail mounting	No
	wall mounting	No
net weight 3.1 kg	housing can be lined up	
	net weight	3.1 kg

electrical accessories Buffer module, redundancy module mechanical accessories Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 internet link • to website: Industry Mall https://mall.industry.siemens.com • to web page: selection aid TIA Selection Tool https://www.siemens.com/tstcloud • to web page: power supplies https://siemens.com/sitop • to website: CAx-Download-Manager https://siemens.com/cax • to website: Industry Online Support https://support.industry.siemens.com additional information other information Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) security information

security information

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Classification Version Classification 14 27-04-07-01 12 27-04-07-01 eClass. 27-04-07-01 eClass 9 1 eClass 9 27-04-07-01 27-04-90-02 eClass 8 27-04-90-02 eClass eClass 6 27-04-90-02 ETIM 9 FC002540 **ETIM** 8 EC002540 EC002540 **ETIM IDEA** 4 4130

Approvals Certificates

General Product Approval







Manufacturer Declaration

UNSPSC

Declaration of Conformity

15



39-12-10-04

General Product Approval

Marine / Shipping







BIS CRS





Environment



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11/25/2024



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