## **SIEMENS**

## **Data sheet**

6EP3336-8MB00-2CY0



## SITOP PSU8600/1AC/24VDC/20A/4X5A PN

SITOP PSU8600 1AC 20 A/4x5 A PN stabilized power supply input: 100-240 V AC output: 24 V DC/20 A/4x 5 A with PN/IE connection web server integrated OPC UA server integrated

input		
type of the power supply network	1-phase and 2-phase AC or DC	
supply voltage at AC		
minimum rated value	100 V	
maximum rated value	240 V	
initial value	85 V	
• full-scale value	275 V	
supply voltage at DC	110 220 V	
input voltage at DC	93 275 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 = 100 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
<ul> <li>at rated input voltage 100 V</li> </ul>	5.4 A	
<ul> <li>at rated input voltage 110 V</li> </ul>	4.8 A	
<ul> <li>at rated input voltage 120 V</li> </ul>	4.5 A	
<ul> <li>at rated input voltage 220 V</li> </ul>	2.4 A	
<ul> <li>at rated input voltage 230 V</li> </ul>	2.5 A	
<ul> <li>at rated input voltage 240 V</li> </ul>	2.4 A	
current limitation of inrush current at 25 °C maximum	15 A	
I2t value maximum	4.33 A²-s	
fuse protection type	internal	
fuse protection type in the feeder	required: circuit breaker (for UL: UL489-listed/DIVQ) characteristic C, 10-32 A, alternatively slow-response fuses (for UL: UL248-listed)	
output		
voltage curve at output	Controlled, isolated DC voltage	
number of outputs	4	
output voltage at DC rated value	24 V	
output voltage		
<ul> <li>at output 1 at DC rated value</li> </ul>	24 V	
<ul> <li>at output 2 at DC rated value</li> </ul>	24 V	
• at output 3 at DC rated value	24 V	
at output 4 at DC rated value	24 V	
output voltage adjustable	Yes; via potentiometer or IE/PN interface	
adjustable output voltage	4 28 V; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system	
relative overall tolerance of the voltage	3 %	

relative control precision of the output voltage		
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.2 %	
on slow fluctuation of ohm loading	0.1 %	
residual ripple		
• maximum	100 mV	
voltage peak		
• maximum	200 mV	
display version for normal operation	3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4	
type of signal at output	Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for "Operating state OK"	
behavior of the output voltage when switching on	No overshoot of Vout (soft start)	
response delay maximum	1 s; Without on-delay of the outputs	
type of outputs connection	Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set	
voltage increase time of the output voltage		
• maximum	500 ms	
output current		
rated value	20 A	
• per output	5 A	
at output 1 rated value	5 A	
at output 2 rated value	5 A	
at output 3 rated value	5 A	
at output 4 rated value	5 A	
• rated range	0 20 A	
supplied active power typical	480 W	
parallel switching of outputs	Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can be selected via DIP switch	
bridging of equipment	No	
efficiency		
·	92 %	
efficiency in percent	92 %	
·	92 % 39 W	
efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output		
efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical	39 W	
efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical  • during no-load operation maximum	39 W	
efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical	39 W 14 W	
efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical  • during no-load operation maximum  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time	39 W 14 W 0.1 % 0.4 %	
efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time • maximum	39 W 14 W 0.1 %	
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efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time • maximum	39 W 14 W 0.1 % 0.4 %	
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efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time • maximum  protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  adjustable current response value current of the current-dependent overload release	39 W  14 W  0.1 %  0.4 %  10 ms  max. 35 V (max. 500 ms)  Yes electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches  0.5 5 A	
efficiency in percent  power loss [W]  • at rated output voltage for rated value of the output current typical • during no-load operation maximum  closed-loop control  relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical  relative control precision of the output voltage load step of resistive load 50/100/50 % typical  setting time • maximum  protection and monitoring  design of the overvoltage protection  property of the output short-circuit proof  design of short-circuit protection  adjustable current response value current of the current-dependent overload release type of response value setting	39 W  14 W  0.1 %  0.4 %  10 ms  max. 35 V (max. 500 ms)  Yes electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches	
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product function communication function	Yes	
design of the interface	Ethernet/PROFINET	
design of the interface PROFINET protocol	Yes	
protocol is supported		
OPC UA	Yes	
safety		
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra low output voltage Vout according to EN 61204-7	
operating resource protection class	Class I	
leakage current		
• maximum	3.5 mA	
protection class IP	IP20	
EMC		
standard	EN FERRO CL. P.	
for emitted interference     for any in a least testing	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	Von	
CE marking     Lill approval	Yes Vocal II up Listed (III E09, CSA C22 2 No. 107.1) File E107250	
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
CSA approval     FAC approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)	
EAC approval     NEC Class 3	Yes	
• NEC Class 2	No Was	
SEMI F47      tune of contributions	Yes	
type of certification	Voc. D 44400074	
BIS     CR contificate	Yes; R-41188271	
CB-certificate  MTBF at 40 °C	Yes 186 700 h	
standards, specifications, approvals hazardous environments	100 700 11	
certificate of suitability		
• IECEx	No	
• ATEX	No	
ULhazloc approval	No	
• cCSAus, Class 1, Division 2	No	
<ul> <li>FM registration</li> </ul>	No.	
FM registration     standards, specifications, approvals marine classification	No	
standards, specifications, approvals marine classification	Yes	
standards, specifications, approvals marine classification shipbuilding approval		
standards, specifications, approvals marine classification		
standards, specifications, approvals marine classification shipbuilding approval Marine classification association	Yes	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)	Yes	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)	Yes Yes No	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)	Yes Yes No No No	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)	Yes Yes No No No	
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standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December 2015	Yes  Yes  No No No No	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS) standards, specifications, approvals Environmental Product De Environmental Product Declaration Global Warming Potential [CO2 eq]	Yes  Yes  No  No  No  Poclaration  Yes	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December Environmental Product Declaration  Global Warming Potential [CO2 eq]  • total	Yes Yes No No No Yes 1 262.5 kg	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December Environmental Product Declaration Global Warming Potential [CO2 eq]  • total  • during manufacturing	Yes  Yes  No No No No Yes  1 262.5 kg 41 kg	
standards, specifications, approvals marine classification shipbuilding approval Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December Environmental Product Declaration Global Warming Potential [CO2 eq]  • total  • during manufacturing • during operation	Yes  Yes  No No No No Teclaration  Yes  1 262.5 kg 41 kg 1 220.3 kg	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product De Environmental Product Declaration  Global Warming Potential [CO2 eq]  • total  • during manufacturing  • during operation  • after end of life	Yes  Yes  No No No No Teclaration  Yes  1 262.5 kg 41 kg 1 220.3 kg	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December Environmental Product Declaration  Global Warming Potential [CO2 eq]  • total  • during manufacturing • during operation • after end of life ambient conditions	Yes  Yes  No No No No Teclaration  Yes  1 262.5 kg 41 kg 1 220.3 kg	
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standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December Environmental Product Declaration  Global Warming Potential [CO2 eq]  • total  • during manufacturing • during operation • after end of life  ambient conditions  ambient temperature • during operation	Yes  Yes  No  No  No  No  Sclaration  Yes  1 262.5 kg 41 kg 1 220.3 kg 0.59 kg  -25 +60 °C; with natural convection	
standards, specifications, approvals marine classification shipbuilding approval Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product Determination  Global Warming Potential [CO2 eq]  • total  • during manufacturing • during operation • after end of life  ambient conditions  ambient temperature  • during operation • during transport	Yes  Yes  No  No  No  Sclaration  Yes  1 262.5 kg 41 kg 1 220.3 kg 0.59 kg  -25 +60 °C; with natural convection -40 +85 °C	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product Determinental Product Declaration  Global Warming Potential [CO2 eq]  • total  • during manufacturing • during operation • after end of life  ambient conditions  ambient temperature  • during operation • during transport • during storage	Yes  Yes  No  No  No  Polaration  Yes  1 262.5 kg 41 kg 1 220.3 kg 0.59 kg  -25 +60 °C; with natural convection -40 +85 °C  -40 +85 °C	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December Environmental Product Declaration  Global Warming Potential [CO2 eq]  • total  • during manufacturing • during operation • after end of life  ambient conditions  ambient temperature  • during operation • during transport • during storage environmental category according to IEC 60721	Yes  Yes  No  No  No  Polaration  Yes  1 262.5 kg 41 kg 1 220.3 kg 0.59 kg  -25 +60 °C; with natural convection -40 +85 °C  -40 +85 °C	
standards, specifications, approvals marine classification shipbuilding approval  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • Lloyds Register of Shipping (LRS)  standards, specifications, approvals Environmental Product December Environmental Product Declaration Global Warming Potential [CO2 eq]  • total  • during manufacturing • during operation • after end of life  ambient conditions  ambient temperature • during operation • during transport • during storage environmental category according to IEC 60721 connection method	Yes  Yes  No  No  No  No  Sclaration  Yes  1 262.5 kg 41 kg 1 220.3 kg 0.59 kg  -25 +60 °C; with natural convection -40 +85 °C -40 +85 °C  Climate class 3K3, 5 95% no condensation	

• at output		1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 2.5 mm²; 0 V: Plug-in terminal with 3 screwed connections for 0.2 4 mm²				
• for auxiliary contacts		RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed				
• for signaling contact		11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm²				
removable terminal at input	Yes					
removable terminal at output	Yes					
design of the interface for communication	PROFINET/Ethernet: two RJ45 sockets (2-port switch)					
suitability for interaction modular system	Yes	` .				
mechanical data						
width × height × depth of the enclosure	125 × 125 × 150 mm					
installation width × mounting height	125 mm × 225 mm					
required spacing						
• top	50 mm	50 mm				
• bottom	50 mm					
● left	0 mm					
• right	0 mm					
fastening method	Snaps onto DIN rail EN 60715	35x15				
standard rail mounting	Yes	00.00				
Standard rail mounting     S7 rail mounting						
<u> </u>		No No				
wall mounting		No Von				
housing can be lined up		Yes				
net weight	2.6 kg	2.6 kg				
accessories			L L LIBORGO			
electrical accessories	Expansion modules CNX8600,					
mechanical accessories	Device identification label 20 m	m × 7 mm, TI-grey 3RT29	900-1SB20			
further information internet links						
internet link						
to website: Industry Mall	https://mall.industry.siemens.co	https://mall.industry.siemens.com				
<ul> <li>to website: Industrial communication</li> </ul>	https://siemens.com/industrial-	https://siemens.com/industrial-communication				
<ul><li>to website: CAx-Download-Manager</li></ul>	https://siemens.com/cax	https://siemens.com/cax				
to website: Industry Online Support	https://support.industry.siemen	https://support.industry.siemens.com				
additional information						
other information	Specifications at rated input volotherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)				
security information						
security information	that support the secure operation order to protect plants, syste threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one elemen for preventing unauthorized accentworks. Such systems, mach to an enterprise network or the necessary and only when appronetwork segmentation) are in p cybersecurity measures that m. www.siemens.com/cybersecuri undergo continuous developmen recommends that product upda and that the latest product vers no longer supported, and failur customer's exposure to cyber t subscribe to the Siemens Indus	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)				
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			

27-04-90-02

eClass

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



**PROFINET** 

**General Product Approval** 

Marine / Shipping

Environment



**BIS CRS** 





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6/26/2024

