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		
 at rated input voltage 100 V 	5.4 A	
 at rated input voltage 110 V 	4.8 A	
 at rated input voltage 120 V 	4.5 A	
 at rated input voltage 220 V 	2.4 A	
 at rated input voltage 230 V 	2.5 A	
 at rated input voltage 240 V 	2.4 A	
current limitation of inrush current at 25 °C maximum	15 A	
12t 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		
 at output 1 at DC rated value 	24 V	
 at output 2 at DC rated value 	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 %	

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4 LEDs for communication PROFINET, -2-actor LED per doubt for operating state autoput, LED great or parallel operation Output 1 and 2/3 and 4 type of signal at output voltage when switching on Profine output profine output voltage of the output o	maximum	200 mV
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of the excess current la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous overcurrent overload capability oin normal operation display version for overload and short circuit 3-color LED for operating state device; 3-color LED per output for operating state output design of the reset device/resetting mechanism via sensor per output or IE/PN interface	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-	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
permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous overcurrent overload capability o in normal operation Total system overloadable 150% la rated to 5 s/min display version for overload and short circuit 3-color LED for operating state device; 3-color LED per output for operating state output design of the reset device/resetting mechanism via sensor per output or IE/PN interface	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 0.5 5 A
overcurrent overload capability	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 0.5 5 A
● in normal operation Total system overloadable 150% la rated to 5 s/min display version for overload and short circuit 3-color LED for operating state device; 3-color LED per output for operating state output design of the reset device/resetting mechanism via sensor per output or IE/PN interface	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 switching characteristic	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 via potentiometer or IE/PN interface la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold)
display version for overload and short circuit 3-color LED for operating state device; 3-color LED per output for operating state output design of the reset device/resetting mechanism via sensor per output or IE/PN interface	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 switching characteristic of the excess current	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 via potentiometer or IE/PN interface la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold
state output design of the reset device/resetting mechanism via sensor per output or IE/PN interface	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 switching characteristic of the excess current of the current limitation overcurrent overload capability	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 via potentiometer or IE/PN interface la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous
	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 switching characteristic of the excess current of the current limitation overcurrent overload capability	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 via potentiometer or IE/PN interface la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous
remote reset function Non-electrically isolated 24 V input (signal level "high" at > 15 V)	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 switching characteristic • of the excess current • of the current limitation overcurrent overload capability • in normal operation	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 via potentiometer or IE/PN interface la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED per output for operating
	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 switching characteristic of the excess current of the current limitation overcurrent overload capability in normal operation display version for overload and short circuit	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 via potentiometer or IE/PN interface la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED per output for operating state output

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	
 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
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
 EAC approval 	Yes
NEC Class 2	No
• SEMI F47	Yes
type of certification	
• BIS	Yes; R-41188271
CB-certificate	Yes
MTBF at 40 °C	186 700 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)	No
 Lloyds Register of Shipping (LRS) 	No
standards, specifications, approvals Environmental Product De	eclaration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	1 262.5 kg
during manufacturing	41 kg
during operation	1 220.3 kg
after end of life	0.59 kg
ambient conditions	
ambient temperature	
during operation	-25 +60; with natural convection
during operation during transport	-40 +85
during transport during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	Cilitate diass site, o so /o file confectioation
	Plug in terminals with corouged connection
type of electrical connection	Plug-in terminals with screwed connection L1/+, N/L2/-, PE: Plug-in terminal with 1 screwed connection each for 0.2 4
• at input	mm² single-wire / fine stranded

• 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 (connection for 0.2 1.5 mm²	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 mm ²			
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				
• bottom	50 mm				
• left	0 mm				
• right	0 mm				
fastening method	Snaps onto DIN rail EN 60715	35x15			
standard rail mounting	Yes				
S7 rail mounting	No				
wall mounting	No				
housing can be lined up	Yes	Yes			
net weight	2.6 kg				
accessories					
electrical accessories	Expansion modules CNX8600,	buffer modules BUF8600), module UPS8600		
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	om			
to web page: selection aid TIA Selection Tool		https://www.siemens.com/tstcloud			
• 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 vol	tage and ambient temper	rature +25 °C (unless		
	otherwise specified)		(1)		
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 element for preventing unauthorized accentworks. Such systems, mach to an enterprise network or the necessary and only when approprietwork segmentation) are in procybersecurity measures that mis www.siemens.com/cybersecuri undergo continuous developmenterecommends that product updated and that the latest product version longer supported, and failure customer's exposure to cyber the subscribe to the Siemens Industrial	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		
	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

Industrial Communication



BIS CRS





PROFINET

last modified:

11/19/2024