SIEMENS

Data sheet

6EP3436-8MB00-2CY0



SITOP PSU8600/3AC/24VDC/20A/4X5A PN

SITOP PSU8600 3AC 20 A/4x5 A PN stabilized power supply input: 400-500 V 3 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	3-phase AC	
supply voltage at AC		
minimum rated value	400 V	
maximum rated value	500 V	
• initial value	320 V	
• full-scale value	575 V	
supply voltage at AC	Derating 320 360 and 530 575 V	
wide range input	Yes	
buffering time for rated value of the output current in the event of power failure minimum	15 ms	
operating condition of the mains buffering	at Vin = 400 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 400 V 	1.4 A	
at rated input voltage 500 V	1.1 A	
current limitation of inrush current at 25 °C maximum	14 A	
I2t value maximum	1.2 A ² ·s	
fuse protection type	none	
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)	
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 %	
relative control precision of the output voltage		
on slow fluctuation of input voltage	0.2 %	
on slow fluctuation of ohm loading	0.1 %	
residual ripple		
• maximum	100 mV	

voltage peak	200 mV	
maximum display version for normal operation	3-color LED for operating state device; LED for operating mode manual/remote;	
uispiay version for normal operation	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; +50 +60 °C: Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 240 W	
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		
efficiency in percent	93 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	34 W	
during no-load operation maximum	12 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	0.4 %	
setting time		
maximum	10 ms	
protection and monitoring		
design of the overvoltage protection	max. 35 V (max. 500 ms)	
property of the output short-circuit proof	Yes	
design of short-circuit protection	165	
	electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches	
adjustable current response value current of the current-dependent overload release	electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches 0.5 5 A	
dependent overload release type of response value setting	electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches	
dependent overload release	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)	
dependent overload release type of response value setting switching characteristic	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	
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• 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	Ciddo i
maximum	3.5 mA
protection class IP	IP20
EMC	11 20
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	2110100002
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	165
BIS	Yes; R-41188271
CB-certificate	Yes
MTBF at 40 °C	243 178 h
standards, specifications, approvals hazardous environments	Zio non
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	1 096.3 kg
during manufacturing	31.5 kg
during operation	1 063.9 kg
after end of life	0.45 kg
ambient conditions	
ambient temperature	
during operation	-25 +60 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	Plug-in terminals with screwed connection
• at input	L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 4 $$ 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 signaling contact	11, 12, 14 (alarm signal): Plug-connection each for 0.2 1.5 r		Reset) with 1 screwed	
removable terminal at input	Yes			
removable terminal at output	Yes	Yes		
design of the interface for communication	PROFINET/Ethernet: two RJ45	PROFINET/Ethernet: two RJ45 sockets (2-port switch)		
suitability for interaction modular system	Yes			
mechanical data				
width × height × depth of the enclosure	100 × 125 × 150 mm			
installation width × mounting height	100 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		
DIN-rail mounting	Yes	50X10		
S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes 2 kg			
net weight	2 kg			
accessories			L L UDOCCC	
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	<u>m</u>		
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstclo	<u>ud</u>		
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	s.com		
additional information				
other information	Specifications at rated input vol otherwise 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 element for preventing unauthorized accumetworks. Such systems, mach	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)		
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EC002540

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ETIM

ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval





Manufacturer Declara-tion

Declaration of Conformity





General Product Approval

Maritime application

Environment



Miscellaneous

BIS CRS







Industrial Communication

PROFINET

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