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
l2t 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

4 LEDs for communication PROFINET; 3-color LED per output for			
display version for normal operation 3-color LED for operating state device; LED for operating mode in 4 LEDs for communication PROFINET; 3-color LED per output for state output; LED green for parallel operation Output 1 and 2 / 3 at every state output; LED green for parallel operation Output 1 and 2 / 3 at every state output; Deparating 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			
"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	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		
response delay maximum 1 s; Without on-delay of the outputs	60 V/0.3 A) for		
type of outputs connection Simultaneous connecting in of all outputs after device booting or			
25 ms, 100 ms or "load-optimized" for sequential cutting-in of the 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 connect expansion module CNX8600 and total load of the outputs at the to 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 sele switch	ected via DIP		
bridging of equipment No			
efficiency			
efficiency in percent 93 %			
power loss [W]			
• at rated output voltage for rated value of the output 34 W current typical			
during no-load operation maximum 12 W			
closed-loop control			
relative control precision of the output voltage with rapid0.1 %fluctuation of the input voltage by +/- 15% typical			
relative control precision of the output voltage load step of 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 electronic overload cut-off; optionally constant current operation of selected for Output 4 via DIP switches	can be		
adjustable current response value current of the current- 0.5 5 A dependent overload release 0.5 5 A			
type of response value setting via potentiometer or IE/PN interface			
switching characteristic			
of the excess current Ia >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la permissible for 200 ms	a threshold)		
of the current limitation la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threcontinuous	eshold		
overcurrent overload capability			
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 state output	r operating		
design of the reset device/resetting mechanism via sensor per output or IE/PN interface			
remote reset function Non-electrically isolated 24 V input (signal level "high" at > 15 V)			
interfaces			
product function communication function Yes			
design of the interface Ethernet/PROFINET			
design of the interface Ethernet/PROFINET • design of the interface PROFINET protocol Yes			

• 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	1 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	LN 01000-0-2
certificate of suitability	
CE marking	Yes
	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
UL approval	
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1) Yes
EAC approval NEC Class 2	
	No
SEMI F47 tupo of contification	Yes
type of certification	Voc. D 44400274
• BIS	Yes; R-41188271
CB-certificate MTBF at 40 °C	Yes
	243 178 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	Mar.
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	
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; with natural convection
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	Plug-in terminals with screwed connection
• at input	L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 \dots 4 $\rm mm^2$ 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 mm ² ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 4 mm ²
for auxiliary contacts	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm ²

11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm ²
Yes
Yes
PROFINET/Ethernet: two RJ45 sockets (2-port switch)
Yes
100 × 125 × 150 mm
100 mm × 225 mm
50 mm
50 mm
0 mm
0 mm
Snaps onto DIN rail EN 60715 35x15
Yes
No
No
Yes
2 kg
2 1/3
Expansion modules CNX8600, buffer modules BUF8600, module UPS8600
Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
Device identification label 20 min + 7 min, 11-grey 51(12500-10B20
https://mall.industry.siemens.com
https://www.siemens.com/tstcloud
https://siemens.com/sitop
https://siemens.com/cax
https://support.industry.siemens.com
Intps://support.industry.siemens.com
Charlifications at rated insult values and embient terms rature 1.25 °C (values
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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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 Appr	oval				
СВ	(SP)	Manufacturer Declara- tion	Declaration of Con- formity	UK CA	CE EG-Konf.
General Product Appr	oval	Marine / Shipping		Environment	Industrial Commu- nication
(h) III	<u>BIS CRS</u>	ABS		EPD	PROFINET
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