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 *Ex approval no longer available*

Input

type of the power supply network supply voltage at AC

- minimum rated value
- maximum rated value
- initial value
- full-scale value

design of input wide range input

operating condition of the mains buffering

buffering time for rated value of the output current in the event of power failure minimum

operating condition of the mains buffering

line frequency

- 1 rated value
- 2 rated value

line frequency

input current

- at rated input voltage 400 V
- at rated input voltage 500 V

current limitation of inrush current at 25 °C maximum

I2t value maximum fuse protection type

• in the feeder

3-phase AC

400 V

500 V

320 V; Derating 320 ... 360 and 530 ... 575 V

575 V

Yes

at Vin = 400 V; Prioritized supply Output 1 at power failure can be selected via DIP switch

15 ms

at Vin = 400 V; Prioritized supply Output 1 at power failure can be selected via DIP switch

50 Hz

60 Hz

47 ... 63 Hz

1.4 A

1.1 A

14 A 1.2 A²·s

none

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

ratput
voltage curve at output
number of outputs
output voltage at DC rated value
output voltage
 at output 1 at DC rated value
 at output 2 at DC rated value
 at output 3 at DC rated value
 at output 4 at DC rated value
relative overall tolerance of the voltage
relative control precision of the output voltage
 on slow fluctuation of input voltage
 on slow fluctuation of ohm loading
residual ripple

Controlled, isolated DC voltage

4 24 V

24 V

24 V

24 V 24 V

3 %

0.2 %

0.1 %

0.1 /0

100 mV

• maximum

voltage peak

	000 1/
• maximum	200 mV
adjustable output voltage	4 28 V
product function output voltage adjustable type of output voltage setting	Yes via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system
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 response delay maximum	No overshoot of Vout (soft start) 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
product feature • 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	93 % 34 W
power loss [W]	
power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum	34 W
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	34 W
power loss [W] • at rated output voltage for rated value of the output current typical • during no-load operation maximum Closed-loop control	34 W 12 W
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	34 W 12 W 0.1 % 0.4 %
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	34 W 12 W 0.1 %
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 PROFINET protocol 	Yes
protocol is supported OPC UA	Yes
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	3.5 mA
protection class IP	IP20
Approvals	
certificate of suitability • CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
o de approvar	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
 CSA approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• cCSAus, Class 1, Division 2	No
ATEX contificate of quitability	No
certificate of suitability	No
IECEx NEC Class 2	No No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
• C-Tick	No
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
 French marine classification society (BV) 	No
DNV GL Lloyde Pagister of Shipping (LDS)	Yes No
Lloyds Register of Shipping (LRS)Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
environmental 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
Mechanics	
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 mm ² single-wire / fine stranded
• at output	1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed
• at output	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
• for signaling contact	screwed connection for 0.2 1.5 mm ²
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
product function	
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
	400
width of the enclosure height of the enclosure	100 mm 125 mm

depth of the enclosure required spacing

- top
- bottom
- left
- right

net weight

product feature of the enclosure housing can be lined up fastening method

electrical accessories

mechanical accessories

MTBF at 40 °C other information

150 mm

50 mm

50 mm

0 mm

0 mm

2 kg Yes

Snaps onto DIN rail EN 60715 35x15

Expansion modules CNX8600, buffer modules BUF8600, module

UPS8600

Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20

243 178 h

Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$

(unless otherwise specified)

