SIEMENS

Data sheet

6EP3436-8SB00-2AY0



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

SITOP PSU8600 3AC 20 A PN stabilized power supply input: 400-500 V 3 AC output: 24 V DC/20 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 to the output on power failure via DIP switch can be selected (only with expansion module CNX8600); Prioritized supply to the output on power failure via DIP switch can be selected (only with expansion module CNX8600)

15 ms

at Vin = 400 V; Prioritized supply to the output on power failure via DIP switch can be selected (only with expansion module CNX8600); Prioritized supply to the output on power failure via DIP switch can be selected (only with expansion module CNX8600)

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

voltage curve at output number of outputs

output voltage at DC rated value

output voltage

• at output 1 at DC rated value relative overall tolerance of the voltage relative control precision of the output voltage

on slow fluctuation of input voltageon slow fluctuation of ohm loading

residual ripple

• maximum

Controlled, isolated DC voltage

-1

24 V

24 V 3 %

0.2 %

0.2 %

100 mV

voltago pook	
voltage peak	200 mV
• maximum	200 mV
adjustable output voltage	4 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 480 W overall system; Derating > 24 V: 4%/V; 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 for operating state output
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
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 (only with expansion module CNX8600)
voltage increase time of the output voltage	
maximum	500 ms
output current	
rated value	20 A
• per output	20 A
at output 1 rated value	20 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
short-term overload current	
 at short-circuit during operation typical 	60 A; only in operation without CNX8600 extension module
duration of overloading capability for excess current	
 at short-circuit during operation 	25 ms
product feature	
bridging of equipment	Yes; suitable output characteristics via DIP switch can be selected
number of parallel-switched equipment resources for increasing the power	2
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 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 %
resistive load 50/100/50 % typical setting time	
resistive load 50/100/50 % typical setting time • maximum	0.4 % 10 ms
resistive load 50/100/50 % typical setting time	
resistive load 50/100/50 % typical setting time • maximum	
resistive load 50/100/50 % typical setting time	10 ms
resistive load 50/100/50 % typical setting time • maximum Protection and monitoring design of the overvoltage protection	10 ms max. 35 V (max. 500 ms)
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can be selected via DIP switch
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can be selected via DIP switch 2 20 A via potentiometer or IE/PN interface
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can be selected via DIP switch 2 20 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
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can be selected via DIP switch 2 20 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
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can be selected via DIP switch 2 20 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
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can be selected via DIP switch 2 20 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
resistive load 50/100/50 % typical setting time	max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can be selected via DIP switch 2 20 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 via sensor or IE/PN interface

Ethernet/PROFINET
Yes
Yes
Yes
Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Class I
3.5 mA
IP20
Yes
Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
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No
No
N-
No No
No No
No No
Yes
163
Yes
No
Yes
ABS, DNV GL
Yes
No
Yes
No
No
EN 55022 Class B
EN 61000-3-2
EN 61000-6-2
25 LGO °C with netural convention
-25 +60 °C; with natural convection
-40 +85 °C -40 +85 °C
Climate class 3K3, 5 95% no condensation
ominate diago orto, o oo // no condendation
Plug-in terminals with screwed connection
L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 4 mm² single-wire / fine stranded
Output: plug-in terminals with 2 screw connectors for 0.2 4 mm ² ; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm ²
RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm²
11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm²
Yes
Yes Yes PROFINET/Ethernet: two RJ45 sockets (2-port switch)

width of the enclosure height of the enclosure 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

80 mm 125 mm

150 mm 50 mm

50 mm 0 mm 0 mm

1.8 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 298 979 h

Specifications at rated input voltage and ambient temperature +25 $^{\circ}\text{C}$ (unless otherwise specified)

