# **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\*

#### Inpu

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

voltage curve at output

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)

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)

50 Hz

60 Hz

47 ... 63 Hz

14A

1.1 A

14 A 1.2 A<sup>2</sup>·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

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

maximumvoltage peakmaximum

adjustable output voltage product function output voltage adjustable

Controlled, isolated DC voltage

041

24 V

24 V

3 %

0.2 %

100 mV

200 mV

4 ... 28 V Yes

type of output voltage setting	via potentiometer or IE/PN interface; 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	
<ul><li>maximum</li></ul>	500 ms
output current	
rated value	20 A
<ul><li>per output</li></ul>	20 A
<ul> <li>at output 1 rated value</li> </ul>	20 A
rated range  supplied active power typical	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 short-term overload current	480 W
at short-circuit during operation typical	60 A: only in operation without CNY8600 extension module
duration of overloading capability for excess current	60 A; only in operation without CNX8600 extension module
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	2
increasing the power	
Efficiency	
efficiency in percent	93 %
power loss [W]  • at rated output voltage for rated value of the output	34 W
current typical	40.14/
during no-load operation maximum	12 W
Closed-loop control	0.4.0/
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	0.1 %
resistive load 50/100/50 % typical	0.4 /0
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 shutdown; optional constant-current operation can be selected via DIP switch
adjustable current response value current of the current- dependent overload release	2 20 A
type of response value setting	via potentiometer or IE/PN interface
switching characteristic	
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
of the current limitation	la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous
design of the reset device/resetting mechanism	via sensor or IE/PN interface
remote reset function	Non-electrically isolated 24 V input (signal level "high" at > 15 V)
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 for operating state output
Interface	
design of the interface	File and at/DDOFINET
-	FINEMEI/PROFINE I
PROFINET protocol	Ethernet/PROFINET Yes
PROFINET protocol protocol is supported OPC UA	Yes 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
	11 20
Approvals	
certificate of suitability	
CE marking	Yes
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; 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	No
certificate of suitability	INO
IECEx	No
NEC Class 2	No No
ULhazloc approval     EM registration	No No
FM registration  type of certification CP certificate	No Voc
type of certification CB-certificate	Yes
certificate of suitability	Vee
EAC approval     C Tiels	Yes
• C-Tick	No V
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	No
DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	EN 61000-3-2
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +60 °C; with natural convection
<u> </u>	-25 100 O, With Hatural Convection
<ul> <li>during transport</li> </ul>	-40 +85 °C
<ul><li>during transport</li><li>during storage</li></ul>	
during storage	-40 +85 °C -40 +85 °C
during storage     environmental category according to IEC 60721	-40 +85 °C
during storage     environmental category according to IEC 60721  Mechanics	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
during storage     environmental category according to IEC 60721	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  Plug-in terminals with screwed connection L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  Plug-in terminals with screwed connection
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• during storage     environmental category according to IEC 60721  Mechanics  type of electrical connection     • at input      • at output	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  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 mm²; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm² RST (Reset): Plug-in terminal (together with alarm signal) with 1
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• during storage     environmental category according to IEC 60721  Mechanics  type of electrical connection     • at input      • at output      • for auxiliary contacts      • for signaling contact	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  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 mm²; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm² 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
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during storage     environmental category according to IEC 60721  Mechanics  type of electrical connection         • at input          • at output          • for auxiliary contacts          • for signaling contact  product function         • removable terminal at input         • removable terminal at output design of the interface for communication	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  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 mm²; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm² 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 PROFINET/Ethernet: two RJ45 sockets (2-port switch)
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output          • for auxiliary contacts         • for signaling contact  product function         • removable terminal at input         • removable terminal at output design of the interface for communication suitability for interaction modular system	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  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 mm²; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm² 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 PROFINET/Ethernet: two RJ45 sockets (2-port switch) Yes
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output          • for auxiliary contacts         • for signaling contact  product function         • removable terminal at input         • removable terminal at output design of the interface for communication suitability for interaction modular system width of the enclosure height of the enclosure	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  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 mm²; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm² 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 PROFINET/Ethernet: two RJ45 sockets (2-port switch) Yes 80 mm
during storage     environmental category according to IEC 60721      Mechanics      type of electrical connection         • at input         • at output         • for auxiliary contacts         • for signaling contact  product function         • removable terminal at input         • removable terminal at output design of the interface for communication suitability for interaction modular system width of the enclosure	-40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation  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 mm²; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm² 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 PROFINET/Ethernet: two RJ45 sockets (2-port switch) Yes 80 mm 125 mm

- 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 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  $\times$  7 mm, TI-grey 3RT2900-1SB20 298 979 h

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

