SIEMENS

Data sheet

6EP3437-8SB00-2AY0



SITOP PSU8600/3AC/24VDC/40A PN

SITOP PSU8600 3AC 40 A PN Stabilized power supply Input: 400-500 V 3 AC output: 24 V DC/40 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)

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

2.75 A

2.2 A

14 A

2.24 A²·s

none

Required: 3-pole connected miniature circuit breaker 10 ... 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 voltage

• on slow fluctuation of ohm loading residual ripple

maximumvoltage peakmaximum

adjustable output voltage product function output voltage adjustable

Controlled, isolated DC voltage

043

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. 960 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	1s
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	40 A
per output	40 A
at output 1 rated value	40 A
• rated range	0 40 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. 480 W
supplied active power typical	960 W
short-term overload current	400 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
at short-circuit during operation typical	120 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	2
increasing the power	
Efficiency	
efficiency in percent	93 %
power loss [W]	
power 1000 [W]	
at rated output voltage for rated value of the output current typical	72 W
at rated output voltage for rated value of the output	72 W 20 W
at rated output voltage for rated value of the output current typical	
 at rated output voltage for rated value of the output current typical during no-load operation maximum 	
at rated output voltage for rated value of the output current typical during no-load operation maximum Closed-loop control	20 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	20 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	0.1 %
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	0.1 %
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	0.1 % 0.4 %
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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 Protection and monitoring	0.1 % 0.4 % 10 ms
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 Protection and monitoring design of the overvoltage protection property of the output short-circuit proof	20 W 0.1 % 0.4 % 10 ms max. 35 V (max. 500 ms) Yes Electronic overload shutdown; optional constant-current operation can
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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	11 20
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)
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• 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	Voc
EAC approval C Tiek	Yes
• C-Tick	No Yea
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	Yes
 Lloyds Register of Shipping (LRS) 	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
• for emitted interference	EN 55022 Class B
for emitted interference for mains harmonical limitation	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
for mains harmonics limitationfor interference immunity	
for mains harmonics limitationfor interference immunity	EN 61000-3-2
for mains harmonics limitationfor interference immunity	EN 61000-3-2 EN 61000-6-2
for mains harmonics limitation for interference immunity environmental conditions	EN 61000-3-2
for mains harmonics limitation for interference immunity environmental conditions ambient temperature	EN 61000-3-2 EN 61000-6-2
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -40 +85 °C
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -40 +85 °C -40 +85 °C
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721 Mechanics	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -40 +85 °C -40 +85 °C
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -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
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -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 0.5 10 mm²; 0
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input at output	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -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 0.5 10 mm²; 0 V: screw terminal with 3 screw connectors for 0.5 10 mm² RST (Reset): Plug-in terminal (together with alarm signal) with 1
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for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input 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	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -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 0.5 10 mm²; 0 V: screw terminal with 3 screw connectors for 0.5 10 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
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input 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	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -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 0.5 10 mm²; 0 V: screw terminal with 3 screw connectors for 0.5 10 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 PROFINET/Ethernet: two RJ45 sockets (2-port switch) Yes 125 mm
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input 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 depth of the enclosure	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -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 0.5 10 mm²; 0 V: screw terminal with 3 screw connectors for 0.5 10 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 PROFINET/Ethernet: two RJ45 sockets (2-port switch) Yes 125 mm 125 mm
for mains harmonics limitation for interference immunity environmental conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input 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	EN 61000-3-2 EN 61000-6-2 -25 +60 °C; with natural convection -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 0.5 10 mm²; 0 V: screw terminal with 3 screw connectors for 0.5 10 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 PROFINET/Ethernet: two RJ45 sockets (2-port switch) Yes 125 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

2.6 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 235 118 h

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

