



SITOP PSU8600/3AC/24VDC/40A/4X10A PN

SITOP PSU8600 3AC 40 A/4x10 A PN stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A/4x 10 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 $V_{in} = 400$ 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	2.75 A
• at rated input voltage 500 V	2.2 A
current limitation of inrush current at 25 °C maximum	14 A
I^2t value maximum	2.24 A ² ·s
fuse protection type	none
fuse protection type in the feeder	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	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. 240 W per output, max. 960 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

voltage peak	
• maximum	200 mV
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	No overshoot of Vout (soft start)
response delay maximum	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	40 A
• per output	10 A
• at output 1 rated value	10 A
• at output 2 rated value	10 A
• at output 3 rated value	10 A
• at output 4 rated value	10 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
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 current typical	72 W
• during no-load operation maximum	20 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 %
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 can be selected for Output 4 via DIP switches
adjustable current response value current of the current-dependent overload release	0.5 ... 10 A
type of response value setting	via potentiometer or IE/PN interface
switching characteristic	
• of the excess current	$I_a > 1.0 \dots < 1.5 \times I_a$ threshold permissible for 5 s; I_a limit (= $1.5 \times I_a$ threshold) permissible for 200 ms
• of the current limitation	I_a limit (= $1.5 \times I_a$ threshold) permissible for 5 s, afterwards I_a threshold continuous
overcurrent overload capability	
• in normal operation	Total system overloadable 150% I_a 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 operating state output
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 PROFINET protocol	Yes
protocol is supported	

• 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	
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	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
• EAC approval	Yes
• NEC Class 2	No
• SEMI F47	Yes
type of certification	
• BIS	Yes; R-41188271
• CB-certificate	Yes
MTBF at 40 °C	207 612 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	
• 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 Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	2 295.1 kg
• during manufacturing	41 kg
• during operation	2 252.9 kg
• after end of life	0.59 kg
ambient 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
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 ... 4 mm² 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 mm²; 0 V: Plug-in terminal with 3 screwed connections for 0.2 ... 10 mm²
• for auxiliary contacts	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 ... 1.5 mm²

• for signaling contact	11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 ... 1.5 mm²		
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		
mechanical data			
width × height × depth of the enclosure	125 × 125 × 150 mm		
installation width × mounting height	125 mm × 225 mm		
required spacing			
• top	50 mm		
• bottom	50 mm		
• left	0 mm		
• right	0 mm		
fastening method	Snaps onto DIN rail EN 60715 35x15		
• standard rail mounting	Yes		
• S7 rail mounting	No		
• wall mounting	No		
housing can be lined up	Yes		
net weight	2.6 kg		
accessories			
electrical accessories	Expansion modules CNX8600, buffer modules BUF8600, module UPS8600		
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20		
further information internet links			
internet link			
• to website: Industry Mall	https://mall.industry.siemens.com		
• to website: Industrial communication	https://siemens.com/industrial-communication		
• to website: CAx-Download-Manager	https://siemens.com/cax		
• to website: Industry Online Support	https://support.industry.siemens.com		
additional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)		
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert . (V4.7)		
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 Approval



[Manufacturer Declaration](#)
[Declaration of Conformity](#)



General Product Approval		Marine / Shipping		Environment	
PROFINET	 UL	BIS CRS	 ABS	 DNV	

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