



SITOP PSU8600/1AC/24VDC/20A/4X5A PN

SITOP PSU8600 1AC 20 A/4x5 A PN stabilized power supply input: 100-240 V AC output: 24 V DC/20 A/4x 5 A with PN/IE connection web server integrated OPC UA server integrated

General information	
Technical Product Detail Page	https://l.siemens.com/1P6EP3336-8MB00-2CY0
input	
type of the power supply network	1-phase and 2-phase AC or DC
supply voltage at AC	
<ul style="list-style-type: none"> • minimum rated value • maximum rated value • initial value • full-scale value 	100 V 240 V 85 V 275 V
supply voltage at DC	110 ... 220 V
input voltage at DC	93 ... 275 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at $V_{in} = 100$ 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	
<ul style="list-style-type: none"> • at rated input voltage 100 V • at rated input voltage 110 V • at rated input voltage 120 V • at rated input voltage 220 V • at rated input voltage 230 V • at rated input voltage 240 V 	5.4 A 4.8 A 4.5 A 2.4 A 2.5 A 2.4 A
current limitation of inrush current at 25 °C maximum	15 A
I ² t value maximum	4.33 A ² ·s
fuse protection type	internal
fuse protection type in the feeder	required: circuit breaker (for UL: UL489-listed/DIVQ) characteristic C, 10-32 A, alternatively slow-response fuses (for UL: UL248-listed)
output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	4
output voltage at DC rated value	24 V
output voltage	
<ul style="list-style-type: none"> • 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 	24 V 24 V 24 V 24 V

output voltage adjustable	Yes; via potentiometer or IE/PN interface
adjustable output voltage	4 ... 28 V; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 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 switch-on of all outputs after device power-up or delay time of 25 ms, 100 ms, or "load-optimized" for sequential switch-on of the outputs via DIP switch configurable
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
supplied active power typical	480 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	92 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	39 W
• during no-load operation maximum	14 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 ... 5 A
type of response value setting	via potentiometer or IE/PN interface
switching characteristic	
• of the excess current	Ia > 1.0... < 1.5 x Ia threshold for 5 s permissible; Ia limit (= 1.5 x Ia threshold) for 200 ms permissible
• of the current limitation	Ia limit (= 1.5 x Ia threshold) permissible for 5 s, afterwards Ia threshold continuous
overcurrent overload capability	
• in normal operation	Total system overloadable 150% Ia 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-isolated 24 V input (signal level "high" at > 15 V)
interfaces	
product function communication function	Yes
design of the interface	Ethernet/PROFINET
<ul style="list-style-type: none"> design of the interface PROFINET protocol 	Yes
protocol is supported	
<ul style="list-style-type: none"> OPC UA 	Yes
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current	
<ul style="list-style-type: none"> maximum 	3.5 mA
protection class IP	IP20
EMC	
standard	
<ul style="list-style-type: none"> for emitted interference for mains harmonics limitation for interference immunity 	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> CE marking UL approval EAC approval NEC Class 2 SEMI F47 	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes
type of certification	
<ul style="list-style-type: none"> BIS CB-certificate 	Yes; R-41188271 Yes
MTBF at 40 °C	186 700 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
<ul style="list-style-type: none"> IECEX ATEX ULhazloc approval FM registration 	No No No No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS) 	Yes No No No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
<ul style="list-style-type: none"> total during manufacturing during operation after end of life 	1 051 kg 62.2 kg 987.6 kg 0.52 kg
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during transport during storage 	-25 ... +60 °C; with natural convection -40 ... +85 °C -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	
<ul style="list-style-type: none"> at input 	L1/+, N/L2/-, PE: Plug-in terminal with 1 screwed connection each for 0.2 ... 4 mm ² single-wire / fine stranded	
<ul style="list-style-type: none"> 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 mm ² ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 ... 4 mm ²	
<ul style="list-style-type: none"> for auxiliary contacts 	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 ... 1.5 mm ²	
<ul style="list-style-type: none"> 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	
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		
<ul style="list-style-type: none"> top 	50 mm	
<ul style="list-style-type: none"> bottom 	50 mm	
<ul style="list-style-type: none"> left 	0 mm	
<ul style="list-style-type: none"> right 	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x15	
<ul style="list-style-type: none"> DIN-rail mounting 	Yes	
<ul style="list-style-type: none"> S7 rail mounting 	No	
<ul style="list-style-type: none"> 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		
<ul style="list-style-type: none"> to website: Industry Mall 	https://mall.industry.siemens.com	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud	
<ul style="list-style-type: none"> to web page: power supplies 	https://siemens.com/sitop	
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	https://siemens.com/cax	
<ul style="list-style-type: none"> 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	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

Environmental Product Declaration	
• global warming potential [CO2 eq] / during manufacturing	62.2 kg
• global warming potential [CO2 eq] / during operation	987.6 kg
• global warming potential [CO2 eq] / after end of life	0.52 kg
• global warming potential [CO2 eq] / total	1051 kg

Environment	General Product Approval
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[Manufacturer Declaration](#)

[Declaration of Conformity](#)



General Product Approval	Maritime application	Industrial Communication
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[China RoHS](#)



[BIS CRS](#)



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