Data sheet



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

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 Vin = 400 V; Prioritized supply of the output in case of power failure selectable via DIP switch (only in conjunction with CNX8600 expansion module)		
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		
I2t value maximum	2.24 A²·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	1		
output voltage at DC rated value	24 V		
output voltage			
at output 1 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. 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 DDOEINET: 2 color LED for congrating state output		
type of signal at output	4 LEDs for communication PROFINET; 3-color LED for operating state output Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for		
type of signal at output	"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	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			
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		
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 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	40		
• maximum	10 ms		
protection and monitoring	25 V/25 V 500 mg		
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	4 40 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			
of the current limitation overcurrent overload capability	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold		
	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold		
overcurrent overload capability	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous		
overcurrent overload capability • in normal operation	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min		
overcurrent overload capability • in normal operation display version for overload and short circuit	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output		
overcurrent overload capability • in normal operation display version for overload and short circuit design of the reset device/resetting mechanism	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output via sensor or IE/PN interface		
overcurrent overload capability • in normal operation display version for overload and short circuit design of the reset device/resetting mechanism remote reset function	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output via sensor or IE/PN interface		
overcurrent overload capability • in normal operation display version for overload and short circuit design of the reset device/resetting mechanism remote reset function nterfaces	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output via sensor or IE/PN interface Non-electrically isolated 24 V input (signal level "high" at > 15 V)		
overcurrent overload capability • in normal operation display version for overload and short circuit design of the reset device/resetting mechanism remote reset function nterfaces product function communication function	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output via sensor or IE/PN interface Non-electrically isolated 24 V input (signal level "high" at > 15 V) Yes		
overcurrent overload capability • in normal operation display version for overload and short circuit design of the reset device/resetting mechanism remote reset function interfaces product function communication function design of the interface	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output via sensor or IE/PN interface Non-electrically isolated 24 V input (signal level "high" at > 15 V) Yes Ethernet/PROFINET		
overcurrent overload capability • in normal operation display version for overload and short circuit design of the reset device/resetting mechanism remote reset function Interfaces product function communication function design of the interface • design of the interface PROFINET protocol	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output via sensor or IE/PN interface Non-electrically isolated 24 V input (signal level "high" at > 15 V) Yes Ethernet/PROFINET		
overcurrent overload capability • in normal operation display version for overload and short circuit design of the reset device/resetting mechanism remote reset function nterfaces product function communication function design of the interface • design of the interface PROFINET protocol protocol is supported	permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED for operating state output via sensor or IE/PN interface Non-electrically isolated 24 V input (signal level "high" at > 15 V) Yes Ethernet/PROFINET 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	235 118 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	100	
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 De		
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]	165	
	2 205 1 kg	
• 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	05	
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	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 (max. 6 mm² with ferrule)	
	terminal with a series connected for one in a first (max. a first with ferrale)	
for auxiliary contacts	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm ²	
for auxiliary contacts for signaling contact	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed	
	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm ² 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed	
for signaling contact	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	

design of the interface for communication	PROFINET/Ethernet: two RJ45 s	ockets (2-port switch)			
suitability for interaction modular system		Yes			
mechanical data	100				
width × height × depth of the enclosure	125 × 125 × 150 mm				
installation width × mounting height		125 mm × 225 mm			
required spacing	120 11111 × 220 11111				
• top	50 mm	50 mm			
• bottom		50 mm			
• left		0 mm			
• right		0 mm			
		Snaps onto DIN rail EN 60715 35x15			
fastening method		Yes			
DIN-rail mounting S7 rail mounting		res No			
S7 rail mounting		No No			
wall mounting					
housing can be lined up		Yes			
net weight	2.6 kg				
accessories	E I CHIVOSO I				
electrical accessories	Expansion modules CNX8600, bu		•		
mechanical accessories	Device identification label 20 mm	× / mm, 11-grey 3RT29	900-1SB20		
urther information internet links					
internet link					
to website: Industry Mall	https://mall.industry.siemens.com				
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	<u>d</u>			
to web page: power supplies	https://siemens.com/sitop				
 to website: CAx-Download-Manager 	https://siemens.com/cax				
to website: Industry Online Support	https://support.industry.siemens.c	<u>com</u>			
additional information					
other information	Specifications at rated input volta otherwise specified)	ge and ambient temper	rature +25 °C (unless		
security information	otherwise specifical				
security information	that support the secure operation In order to protect plants, systems	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	state-of-the-art industrial cyberse solutions constitute one element for preventing unauthorized accernetworks. Such systems, machinito an enterprise network or the in necessary and only when approping network segmentation) are in placeybersecurity measures that may www.siemens.com/cybersecurity-undergo continuous development recommends that product update and that the latest product version no longer supported, and failure toustomer's exposure to cyber thresubscribe to the Siemens Industri	curity concept. Siemens of such a concept. Cust ss to their plants, systet es and components shot ternet if and to the externate security measures ce. For additional inform the implemented, pleasindustry. Siemens' proof to make them more se as are applied as soon a ms are used. Use of proto apply the latest update eats. To stay informed a ial Cybersecurity RSS F	maintain – a holistic, s' products and tomers are responsible ms, machines and buld only be connected in such a connection is (e.g. firewalls and/or nation on industrial se visit ducts and solutions cure. Siemens strongly is they are available duct versions that are tes may increase about product updates,		
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Approvals Certificates

General Product Approval





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Maritime application

Environment



Miscellaneous

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