



SITOP UPS8600/120W

SITOP UPS8600 UPS module for PSU8600 nominal voltage: DC 48 V buffer power: 960 W charging power: 120 W

Technical Product Detail Page

<https://i.siemens.com/1P6EP4197-8AB00-0XY0>

memory

type of energy storage	External battery module
design of the mains power cut bridging-connection	Buffer time limit 1 ... 88 min. can be set with DIP switches or until the connected battery modules are discharged

output

output voltage	48 V
<ul style="list-style-type: none"> in normal operation at DC rated value 	
property of the output short-circuit proof	Yes
charging current	1.25 A, 2.5 A
type of signal at output	relay contacts (NO contact, contact rating DC 60 V/0.3 A) for "sufficient buffer readiness", "buffer mode" and "battery circuit fault"

efficiency

efficiency in percent	99 %
<ul style="list-style-type: none"> in case of operation on rechargeable battery typical 	
power loss [W]	10 W
<ul style="list-style-type: none"> in case of operation on rechargeable battery typical 	
supplied active power typical	960 W

protection and monitoring

product function	Yes
<ul style="list-style-type: none"> reverse polarity protection against energy storage unit polarity reversal 	
display version	Three-color LED for operating state of module, three-color LED for status of battery circuit
<ul style="list-style-type: none"> for normal operation in buffering mode 	LED green for "buffer standby exist" LED yellow for "buffered mode"

interfaces

product function communication function	Yes
design of the interface	Ethernet/PROFINET via power supply unit PSU8600

safety

operating resource protection class	Class III
protection class IP	IP20
standard	
<ul style="list-style-type: none"> for emitted interference for interference immunity 	EN 55022 Class B EN 61000-6-2

standards, specifications, approvals

certificate of suitability	Yes
<ul style="list-style-type: none"> CE marking UL approval EAC approval 	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes

type of certification CB-certificate	Yes
MTBF at 40 °C	405 763 h
standards, specifications, approvals hazardous environments	
certificate of suitability	No
• ATEX	
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	Yes
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	292.2 kg
• during manufacturing	36.9 kg
• during operation	254.3 kg
• after end of life	0.68 kg
ambient conditions	
ambient temperature	
• during operation	-25 ... +70 °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
• for rechargeable battery module	+, -: plug-in terminals each with 1 screw terminal for 0.2 ... 10 mm ²
• for data cable	COM1, COM2: 2 plug-in terminals each with a screw terminal for 0.2 ... 2.5 mm ²
• for auxiliary contacts	X1, X2, X3, X3 (control contacts): plug-in terminal with one screw-type terminal each for 0.14 ... 1.5 mm ²
• for signaling contact	13, 14, 23, 24, 33, 34 (signaling contacts): plug-in terminal with one screw-type terminal each for 0.14 ... 1.5 mm ²
suitability for interaction modular system	Yes
type of connection to system components	Via integrated connector
number of expansion modules maximum	2
mechanical data	
width × height × depth of the enclosure	60 × 125 × 150 mm
installation width × mounting height	60 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
• DIN-rail mounting	Yes
• S7 rail mounting	No
• wall mounting	No
housing can be lined up	Yes
net weight	0.9 kg
accessories	
electrical accessories	Battery module BAT8600
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 web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• 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.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	27-04-07-05
eClass	12	27-04-07-05
eClass	9.1	27-04-07-05
eClass	9	27-04-07-05
eClass	8	27-04-06-90
eClass	7.1	27-04-06-90
eClass	6	27-04-06-90
ETIM	10	EC000382
ETIM	9	EC000382
ETIM	8	EC000382
ETIM	7	EC000382
IDEA	4	4149
UNSPSC	15	39-12-10-11

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



[China RoHS](#)

General Product Approval **Maritime application** **Environment**



last modified:

11/14/2025