



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

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|--|--|
| output voltage | 48 V |
| • 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 | |
| • in case of operation on rechargeable battery typical | 99 % |
| power loss [W] | |
| • in case of operation on rechargeable battery typical | 10 W |
| supplied active power typical | 960 W |

protection and monitoring

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|---|--|
| product function | |
| • reverse polarity protection against energy storage unit polarity reversal | Yes |
| display version | Three-color LED for operating state of module, three-color LED for status of battery circuit |
| • for normal operation | LED green for "buffer standby exist" |
| • in buffering mode | LED yellow for "buffered mode" |

interfaces

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

safety

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|-------------------------------------|------------------|
| operating resource protection class | Class III |
| protection class IP | IP20 |
| standard | |
| • for emitted interference | EN 55022 Class B |
| • 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 |
| • EAC approval | 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 | | |
| • 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 x height x depth of the enclosure | | 60 x 125 x 150 mm |
| installation width x mounting height | | 60 mm x 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 x 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 |

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| additional information | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| security information | |
| security information | <p>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)</p> |

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| 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 |

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| Approvals Certificates |
| General Product Approval |



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



[China RoHS](#)

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| General Product Approval | Maritime application | Environment |
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