

Data sheet

6EP4135-0GL00-0AY0



SITOP BAT1600/Battery module/24V/12AH/EX

SITOP BAT1600 EX 24 V DC 12 Ah Pb battery module with maintenance-free closed lead-acid battery for SITOP UPS1600

Technical Product Detail Page

<https://i.siemens.com/1P6EP4135-0GL00-0AY0>

| electrical data | |
|---|--|
| end-of-charge voltage at DC | |
| • at -10 °C recommended | 28 V |
| • at 0 °C recommended | 28 V |
| • at 10 °C recommended | 27.8 V |
| • at 20 °C recommended | 27.3 V |
| • at 30 °C recommended | 26.8 V |
| • at 40 °C recommended | 26.6 V |
| • at 50 °C recommended | 26.3 V |
| output | |
| battery capacity | 12 A·h |
| output current rated value | 40 A |
| output current in buffering mode maximum | 40 A |
| peak current | 120 A; for 30 ms |
| charging current maximum | 3 A |
| output voltage at DC rated value | 24 V |
| interfaces | |
| communication function | Yes |
| protection and monitoring | |
| design of short-circuit protection | 50A / 32V Maxi flat fuse |
| design of the overload protection | Valve control |
| display version for normal operation | Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible |
| safety | |
| operating resource protection class | Class III |
| protection class IP | IP20 |
| standards, specifications, approvals | |
| certificate of suitability | |
| • CE marking | Yes |
| • UL approval | Yes; cULus-Listed (UL 61010-1, UL61010-2-201, CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289 |
| • UKCA marking | Yes |
| type of certification CB-certificate | Yes |
| standards, specifications, approvals hazardous environments | |
| certificate of suitability | |
| • IECEx | Yes; IECEx Ex ec IIC T4 Gc |
| • ATEX | Yes; ATEX (EX) II 3G ex ec IIC T4 Gc |
| • ULhazloc approval | Yes |

| | |
|---|---|
| • CCC for hazardous zone according to GB standard | Yes |
| standards, specifications, approvals marine classification | |
| shipbuilding approval | Yes |
| Marine classification association | |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| • Det Norske Veritas (DNV) | in preparation |
| standards, specifications, approvals Environmental Product Declaration | |
| Environmental Product Declaration | Yes |
| global warming potential [CO2 eq] | |
| • total | 40.18 kg |
| • during manufacturing | 22.2 kg |
| • during operation | 14 kg |
| • after end of life | 1.17 kg |
| ambient conditions | |
| ambient condition | For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away. |
| ambient temperature | |
| • during operation | -15 ... +50 °C |
| • during transport | -20 ... +50 °C |
| • during storage | -20 ... +40 °C |
| relative temporary capacity loss at 20 °C in a month typical | 3 % |
| service life | |
| service life of energy storage | |
| • typical | capacity falls to 80 % of original capacity (according to EUROBAT) |
| • at 20 °C typical | 4 a |
| • at 30 °C typical | 2 a |
| • at 40 °C typical | 1 a |
| • at 50 °C typical | 0.5 a |
| note | Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C. |
| connection method | |
| type of electrical connection | screw terminal |
| • for UPS module | 1 screw terminal each for 0.5 ... 16 mm ² for + BAT and - BAT |
| • for control circuit and status message | 1 screw terminal each for 0.2 ... 2.5 mm ² |
| mechanical data | |
| width × height × depth of the enclosure | 225 × 156 × 138 mm |
| installation width × mounting height | 225 mm × 256 mm |
| required spacing | |
| • top | 50 mm |
| • bottom | 50 mm |
| • left | 0 mm |
| • right | 0 mm |
| fastening method | Wall mounting |
| • DIN-rail mounting | No |
| • S7 rail mounting | No |
| • wall mounting | Yes |
| net weight | 10.2 kg |
| number of cells | 2 |
| accessories | |
| product component included | 2x Maxi Fuse 50 A/32 V |
| 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
- to website: Industry Online Support

<https://www.siemens.com/cax>
<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

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Classifications

| | Version | Classification |
|--------|---------|----------------|
| eClass | 14 | 27-05-04-03 |
| eClass | 12 | 27-05-04-03 |
| eClass | 9.1 | 27-05-04-03 |
| eClass | 9 | 27-05-04-03 |
| eClass | 8 | 27-05-04-03 |
| eClass | 7.1 | 27-05-04-03 |
| eClass | 6 | 27-05-04-90 |
| ETIM | 10 | EC000357 |
| ETIM | 9 | EC000357 |
| ETIM | 8 | EC000357 |
| ETIM | 7 | EC000357 |

Approvals Certificates

| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|
|--------------------------|--------------------------------|



[Manufacturer Declaration](#)



For use in hazardous locations

Dangerous goods

Environment



[CCC-Ex](#)



[Dangerous goods information](#)



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