SIEMENS

## Data sheet 6EP4132-0JA00-0AY0-Z A03




SITOP BAT1600/BATT.MODUL/24V/2.5AH

SITOP BAT1600 24 V DC 2.5 Ah LiFePO4 lithium battery for SITOP UPS1600
A03= 30% charge for air cargo

| | |
|---|---|
| **electrical data** | |
| end-of-charge voltage at DC | |
| ● at -10 °C recommended | 28.8 V |
| ● at 0 °C recommended | 28.8 V |
| ● at 10 °C recommended | 28.8 V |
| ● at 20 °C recommended | 28.8 V |
| ● at 30 °C recommended | 28.8 V |
| ● at 40 °C recommended | 28.8 V |
| ● at 50 °C recommended | 28.8 V |
| **output** | |
| battery capacity | 2.5 A·h |
| output current rated value | 10 A |
| output current in buffering mode maximum | 10 A |
| peak current | 45 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 | 25A / 32V Maxi flat fuse |
| 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; cCSAus (CSA 62368-1, UL62368-1) |
| ● CSA 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; cCSAus (CSA 62368-1, UL62368-1) |
| type of certification CB-certificate | Yes |
| **standards, specifications, approvals hazardous environments** | |
| certificate of suitability | |
| ● ATEX | No |
| ● cCSAus, Class 1, Division 2 | No |
| **standards, specifications, approvals marine classification** | |
| shipbuilding approval | Yes |


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| | |
|---|---|
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| ● Det Norske Veritas (DNV) | in preparation |
| **ambient conditions** | |
| ambient condition | For storage, mounting and operation of batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. |
| ambient temperature | |
| ● during operation | -10 ... +50 °C |
| ● during transport | -30 ... +70 °C |
| ● during storage | -20 ... +35 °C |
| relative temporary capacity loss at 20 °C in a month typical | 1 % |
| service life of energy storage | |
| ● typical | capacity falls to 80 % of original capacity (according to EUROBAT) |
| ● at 20 °C typical | 11 a |
| ● at 30 °C typical | 11 a |
| ● at 40 °C typical | 8 a |
| ● at 50 °C typical | 6 a |
| ● at 60 °C typical | 2 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 power supply unit | 1 screw terminal each for 0.5 ... 10 mm² for + BAT and - BAT |
| ● for control circuit and status message | 1 screw terminal each for 0.2 ... 2.5 mm² |
| **mechanical data** | |
| width × height × depth of the enclosure | 89 × 156 × 129 mm |
| installation width × mounting height | 89 × 256 mm |
| required spacing | |
| ● top | 50 mm |
| ● bottom | 50 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| fastening method | snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0 |
| ● standard rail mounting | Yes |
| ● S7 rail mounting | Yes |
| ● wall mounting | Yes |
| net weight | 2 kg |
| number of cells | 1 |
| **accessories** | |
| product component included | 2x Maxi Fuse 25 A/32 V |
| mechanical accessories | BAT1600 wall mounting kit 6EP4990-0MK00-0XU0 |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to web page: selection aid TIA Selection Tool | https://siemens.com/tst |
| ● to website: Industrial communication | http://www.siemens.com/simatic-net |
| ● to website: CAx-Download-Manager | http://www.siemens.com/cax |
| **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 |


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## Classifications

| | Version | Classification |
|---|---|---|
| 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 | 9 | EC000356 |
| ETIM | 8 | EC000356 |
| ETIM | 7 | EC000356 |

## Approvals Certificates

| General Product Approval | | Dangerous Good |
|---|---|---|
| CB | Manufacturer Declaration | Dangerous Goods Information |

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