

SITOP BAT1600/Battery module/24V/7.5AH

SITOP BAT1600 24 V DC 7.5 Ah LiFePO4 lithium battery for SITOP UPS1600  
A03= 30% charge for air cargo

| General information                                                    |                                                                                                               |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Technical Product Detail Page                                          | <a href="https://i.siemens.com/1P6EP4134-0JA00-0AY0-ZA03">https://i.siemens.com/1P6EP4134-0JA00-0AY0-ZA03</a> |
| 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                                                       | 7.5 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                                                                                      |
| 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                                             |                                                                                                               |
| • ATEX                                                                 | No                                                                                                            |
| 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                                                                | 43.4 kg                                                                                                       |
| • during manufacturing                                                 | 41 kg                                                                                                         |
| • during operation                                                     | 0.202 kg                                                                                                      |

|                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• after end of life</li> </ul>                                                                                                                                                                                                                  | 0.781 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ambient conditions</b>                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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 <ul style="list-style-type: none"> <li>• during operation</li> <li>• during transport</li> <li>• during storage</li> </ul>                                                                                                                                         | -10 ... +50 °C<br>-30 ... +70 °C<br>-20 ... +35 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| relative temporary capacity loss at 20 °C in a month typical                                                                                                                                                                                                                           | 1 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>service life</b>                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| service life of energy storage <ul style="list-style-type: none"> <li>• typical</li> <li>• at 20 °C typical</li> <li>• at 30 °C typical</li> <li>• at 40 °C typical</li> <li>• at 50 °C typical</li> <li>• at 60 °C typical</li> </ul>                                                 | capacity falls to 80 % of original capacity (according to EUROBAT)<br>11 a<br>11 a<br>8 a<br>6 a<br>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.                                                                                                                                                                                                                |
| <b>connection method</b>                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| type of electrical connection <ul style="list-style-type: none"> <li>• for UPS module</li> <li>• for control circuit and status message</li> </ul>                                                                                                                                     | screw terminal<br>1 screw terminal each for 0.5 ... 16 mm² for + BAT and - BAT<br>1 screw terminal each for 0.2 ... 2.5 mm²                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mechanical data</b>                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| width × height × depth of the enclosure                                                                                                                                                                                                                                                | 238 × 156 × 129 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| installation width × mounting height                                                                                                                                                                                                                                                   | 238 mm × 256 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| required spacing <ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>                                                                                                                                                            | 50 mm<br>50 mm<br>0 mm<br>0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| fastening method <ul style="list-style-type: none"> <li>• DIN-rail mounting</li> <li>• S7 rail mounting</li> <li>• wall mounting</li> </ul>                                                                                                                                            | snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0<br>Yes<br>Yes<br>Yes                                                                                                                                                                                                                                                                                                                                                                                                                         |
| net weight                                                                                                                                                                                                                                                                             | 4 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| number of cells                                                                                                                                                                                                                                                                        | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>accessories</b>                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| product component included                                                                                                                                                                                                                                                             | 2x Maxi Fuse 50 A/32 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| mechanical accessories                                                                                                                                                                                                                                                                 | BAT1600 wall mounting kit 6EP4990-0MK00-0XU0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>further information internet links</b>                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| internet link <ul style="list-style-type: none"> <li>• to website: Industry Mall</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: power supplies</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a><br><a href="https://siemens.com/sitop">https://siemens.com/sitop</a><br><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                          |
| <b>additional information</b>                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| other information                                                                                                                                                                                                                                                                      | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>security information</b>                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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 |

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Classifications

|        | Version | Classification |
|--------|---------|----------------|
| eClass | 16      | 27-05-04-03    |
| 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 | Dangerous goods |
|--------------------------|-----------------|



[Manufacturer Declaration](#) [Test Summary Report UN 38.3](#) [Dangerous goods information](#) [Transport Information](#)

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