

SITOP DC UPS MODULE 6A WITHOUT INTERFACE  
 SITOP Module 24 V USC DC /6 A Uninterrupted Power supply  
 without interface input: 24 V DC/6.85 A output: 24 V DC/6 A



| Input   |  |
|---|--|
| supply voltage at DC rated value  | 24 V   |
| voltage curve at input  | DC   |
| input voltage range   | 22 ... 29 V DC   |
| adjustable response value voltage for buffer connection preset                          | 22.5 V   |
| adjustable response value voltage for buffer connection                                 | 22 ... 25.5 V; Adjustable in 0.5 V increments  |
| input current at rated input voltage 24 V rated value                                   | 6 A; + approx. 0.6 A with empty battery  |
| Mains buffering   |  |
| type of energy storage  | with batteries   |
| design of the mains power cut bridging-connection                                       | Dependent on connected battery and load current, see selection table battery module and mains buffering times as well as the relevant important information notes! |
| charging current  | 0.2 A, 0.4 A   |
| adjustable charging current maximum note  | factory setting approx. 0.4 A  |
| Output  |  |
| output voltage  |  |
| <ul style="list-style-type: none"> <li>in normal operation at DC rated value</li> </ul> | 24 V   |

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• in buffering mode at DC rated value</li> </ul> | 24 V                                     |
| formula for output voltage  | $V_{in} - \text{approx. } 0.5 \text{ V}$ |
| ON-delay time typical   | 1 s                                      |
| voltage increase time of the output voltage typical                                     | 60 ms                                    |
| output voltage in buffering mode at DC  | 19 ... 28.5 V                            |
| output current  |  |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                         | 6 A                                      |
| <ul style="list-style-type: none"> <li>• in normal operation</li> </ul>                 | 0 ... 6 A                                |
| <ul style="list-style-type: none"> <li>• in buffering mode</li> </ul>                   | 0 ... 6 A                                |
| peak current  | 6.3 A                                    |
| property of the output short-circuit proof  | Yes                                      |
| supplied active power typical   | 144 W                                    |

### Efficiency

|   |        |
|---|--------|
| efficiency in percent   |        |
| <ul style="list-style-type: none"> <li>• at rated output current for rated value of the output current typical</li> </ul> | 95 %   |
| <ul style="list-style-type: none"> <li>• in case of accumulator operation typical</li> </ul>                              | 94.5 % |
| power loss [W]  |        |
| <ul style="list-style-type: none"> <li>• at rated output current for rated value of the output current typical</li> </ul> | 7 W    |
| <ul style="list-style-type: none"> <li>• in case of accumulator operation typical</li> </ul>                              | 8 W    |

### Protection and monitoring

|   |     |
|---|-----|
| product function  |     |
| <ul style="list-style-type: none"> <li>• reverse polarity protection against energy storage unit polarity reversal</li> </ul> | Yes |
| <ul style="list-style-type: none"> <li>• reverse polarity protection against input voltage polarity reversal</li> </ul>       | Yes |

### Signaling

|  |  |
|--|--|
| display version  |  |
| <ul style="list-style-type: none"> <li>• for normal operation</li> </ul> | Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A |
| <ul style="list-style-type: none"> <li>• in buffering mode</li> </ul>    | Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed   |

| Interface                      |         |
|--------------------------------|---------|
| product component PC interface | No      |
| design of the interface        | without |

| Safety   |  |
|--|--|
| galvanic isolation between entrance and outlet   | No   |
| operating resource protection class  | Class III  |
| certificate of suitability <ul style="list-style-type: none"> <li>• CE marking</li> <li>• as approval for USA</li> <li>• relating to ATEX</li> <li>• C-Tick</li> </ul> | Yes<br>cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259<br>-<br>No |
| shipbuilding approval  | ABS, DNV GL  |
| protection class IP  | IP20   |

| EMC  |                                  |
|--|----------------------------------|
| standard <ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul> | EN 55022 Class B<br>EN 61000-6-2 |

| environmental conditions   |   |
|--|---|
| ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during transport</li> <li>• during storage</li> </ul> | -25 ... +60 °C; with natural convection<br>-40 ... +85 °C<br>-40 ... +85 °C |
| environmental category acc. to IEC 60721   | Climate class 3K3, 5 ... 95% no condensation                                |

| Mechanics   |  |
|---|--|
| type of electrical connection <ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> <li>• for battery module</li> <li>• for control circuit and status message</li> </ul> | screw-type terminals<br>24 V DC: 2 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG<br>24 V DC: 4 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG<br>24 V DC: 2 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG<br>10 screw terminals for 0.5 ... 2.5 mm <sup>2</sup> /20 ... 13 AWG |
| width of the enclosure  | 50 mm  |
| height of the enclosure   | 125 mm   |
| depth of the enclosure  | 125 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   |
| net weight  | 0.4 kg   |
| product feature of the enclosure housing for side-by-side mounting  | Yes  |
| mounting type   | Snaps onto DIN rail EN 60715 35x7.5/15   |

|                                       |   |
|---------------------------------------|---|
| electrical accessories                | Battery module  |
| MTBF at 40 °C                         | 1 085 776 h   |
| reference code acc. to DIN EN 81346-2 | T   |
| other information                     | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |