



SITOP DC UPS MODULE/24VDC/6A

SITOP DC UPS module 24 V/6 A uninterruptible power supply without interface  
input: 24 V DC/6.85 A output: 24 V DC/6 A \*Ex approval no longer available\*

| Input   |  |
|---|--|
| supply voltage at DC rated value  | 24 V   |
| input voltage   | DC 22 ... 29 V   |
| 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  |  |
| • in normal operation at DC rated value                                     | 24 V   |
| • in buffering mode at DC rated value                                       | 24 V   |
| formula for output voltage  | $V_{in} - \text{approx. } 0.5 \text{ V}$   |
| startup 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  |  |
| • rated value   | 6 A  |
| • in normal operation   | 0 ... 6 A  |
| • in buffering mode   | 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   |  |
| • at rated output voltage for rated value of the output current typical     | 95 %   |
| • in case of operation on rechargeable battery typical                      | 94.5 %   |
| power loss [W]  |  |
| • at rated output voltage for rated value of the output current typical     | 7 W  |
| • in case of operation on rechargeable battery typical                      | 8 W  |
| Protection and monitoring   |  |
| product function  |  |
| • reverse polarity protection against energy storage unit polarity reversal | Yes  |

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>  | Yes  |
| <b>Signaling</b>   |  |
| display version  | <p>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 &gt; 85%: LED green (Bat &gt; 85%), floating NO contact "Bat &gt; 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A</p> <p>Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage &lt; 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage &gt; 85%: LED green (Bat &gt; 85%), floating NO contact "Bat &gt; 85" closed</p> |
| <ul style="list-style-type: none"> <li>for normal operation</li> <li>in buffering mode</li> </ul>  |  |
| <b>Interface</b>   |  |
| product component PC interface   | No   |
| design of the interface  | without  |
| <b>Safety</b>  |  |
| galvanic isolation between input and output  | No   |
| operating resource protection class  | Class III  |
| protection class IP  | IP20   |
| <b>Approvals</b>   |  |
| certificate of suitability   | <ul style="list-style-type: none"> <li>CE marking</li> <li>UL approval</li> <li>as approval for USA</li> </ul>   |
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| certificate of suitability   | <ul style="list-style-type: none"> <li>EAC approval</li> <li>C-Tick</li> <li>shipbuilding approval</li> </ul>  |
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| shipbuilding approval  | ABS, DNV GL  |
| Marine classification association  | <ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>DNV GL</li> </ul>  |
| <ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>DNV GL</li> </ul>  |  |
| <b>EMC</b>   |  |
| standard   | <ul style="list-style-type: none"> <li>for emitted interference</li> <li>for interference immunity</li> </ul>  |
| <ul style="list-style-type: none"> <li>for emitted interference</li> <li>for interference immunity</li> </ul>  |  |
| <b>environmental conditions</b>  |  |
| ambient temperature  | <ul style="list-style-type: none"> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>   |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>   |  |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>   |  |
| environmental category according to IEC 60721  | Climate class 3K3, 5 ... 95% no condensation   |
| <b>Mechanics</b>   |  |
| type of electrical connection  | <ul style="list-style-type: none"> <li>at input</li> <li>at output</li> <li>for rechargeable battery module</li> <li>for control circuit and status message</li> </ul>   |
| <ul style="list-style-type: none"> <li>at input</li> <li>at output</li> <li>for rechargeable battery module</li> <li>for control circuit and status message</li> </ul> |  |
| <ul style="list-style-type: none"> <li>at input</li> <li>at output</li> <li>for rechargeable battery module</li> <li>for control circuit and status message</li> </ul> |  |
| <ul style="list-style-type: none"> <li>at input</li> <li>at output</li> <li>for rechargeable battery module</li> <li>for control circuit and status message</li> </ul> |  |
| 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>   |
| <ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>   |  |
| <ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>   |  |
| <ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>   |  |
| net weight   | 0.4 kg   |
| product feature of the enclosure housing can be lined up   | Yes  |
| fastening method   | Snaps onto DIN rail EN 60715 35x7.5/15   |
| electrical accessories   | Battery module   |

|   |   |
|---|---|
| MTBF at 40 °C                           | 1 085 776 h   |
| reference code according to IEC 81346-2 | RB  |
| other information                       | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

