



SITOP DC UPS MODULE/24VDC/15A/USB

SITOP DC UPS module 24 V/15 A uninterruptible power supply with USB interface input: 24 V DC/16 A output: 24 V DC/15 A *Ex approval no longer available*

| 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 | 15 A; + approx. 1 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 | 0.35 A, 0.7 A |
| adjustable charging current maximum note | factory setting approx. 0.7 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 | 15 A |
| • in normal operation | 0 ... 15 A |
| • in buffering mode | 0 ... 15 A |
| peak current | 15.7 A |
| property of the output short-circuit proof | Yes |
| supplied active power typical | 360 W |
| Efficiency | |
| efficiency in percent | |
| • at rated output voltage for rated value of the output current typical | 96.2 % |
| • in case of operation on rechargeable battery typical | 96 % |
| power loss [W] | |
| • at rated output voltage for rated value of the output current typical | 14 W |
| • in case of operation on rechargeable battery typical | 15 W |
| Protection and monitoring | |
| product function | |
| • reverse polarity protection against energy storage | Yes |

| | |
|--|--|
| unit polarity reversal | |
| <ul style="list-style-type: none"> reverse polarity protection against input voltage polarity reversal | Yes |
| Signaling | |
| display version | |
| <ul style="list-style-type: none"> for normal operation | 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"> in buffering mode | 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 | Yes |
| design of the interface | USB |
| Safety | |
| galvanic isolation between input and output | No |
| operating resource protection class | Class III |
| protection class IP | IP20 |
| Approvals | |
| certificate of suitability | |
| <ul style="list-style-type: none"> CE marking UL approval as approval for USA | Yes Yes cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| certificate of suitability | |
| <ul style="list-style-type: none"> EAC approval C-Tick shipbuilding approval | Yes No Yes |
| shipbuilding approval | ABS, DNV GL |
| Marine classification association | |
| <ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) DNV GL | Yes Yes |
| EMC | |
| standard | |
| <ul style="list-style-type: none"> for emitted interference for interference immunity | EN 55022 Class B EN 61000-6-2 |
| environmental conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation during transport during storage | -25 ... +60 °C; with natural convection -40 ... +85 °C -40 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | |
| type of electrical connection | screw-type terminals |
| <ul style="list-style-type: none"> at input at output for rechargeable battery module for control circuit and status message | 24 V DC: 2 screw terminals for 1 ... 4 mm ² /17 ... 11 AWG 24 V DC: 4 screw terminals for 1 ... 4 mm ² /17 ... 11 AWG 24 V DC: 2 screw terminals for 1 ... 4 mm ² /17 ... 11 AWG 10 screw terminals for 0.5 ... 2.5 mm ² /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"> top bottom left right | 50 mm 50 mm 0 mm 0 mm |
| net weight | 0.45 kg |

product feature of the enclosure housing can be lined up
fastening method
electrical accessories
MTBF at 40 °C
reference code according to IEC 81346-2
other information

Yes
Snaps onto DIN rail EN 60715 35x7.5/15
Battery module
690 131 h
RB
Specifications at rated input voltage and ambient temperature +25 °C
(unless otherwise specified)

