

SITOP DC UPS MODULE 6A WITH SERIAL INT.
 SITOP Module 24 V USC DC /6 A Uninterrupted Power supply With
 serial 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"> in normal operation at DC Rated value | 24 V |

| | |
|---|--|
| <ul style="list-style-type: none"> • in buffering mode at DC Rated value | 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"> • Rated value | 6 A |
| <ul style="list-style-type: none"> • in normal operation | 0 ... 6 A |
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • at rated output current for rated value of the output current typical | 95 % |
| <ul style="list-style-type: none"> • in case of accumulator operation typical | 94.5 % |
| Power loss [W] | |
| <ul style="list-style-type: none"> • at rated output current for rated value of the output current typical | 7 W |
| <ul style="list-style-type: none"> • in case of accumulator operation typical | 8 W |

Protection and monitoring

| | |
|---|-----|
| Product function | |
| <ul style="list-style-type: none"> • reverse polarity protection against energy storage unit polarity reversal | Yes |
| <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 | serial |
| Safety | |
| Galvanic isolation between entrance and outlet | No |
| Operating resource protection class | Class III |
| Certificate of suitability | Yes |
| <ul style="list-style-type: none"> • CE marking • as approval for USA • relating to ATEX • C-Tick | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 - No |
| Shipbuilding approval | ABS, DNV GL |
| Protection class IP | IP20 |
| 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 acc. 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 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 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 | 966 183 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) |