

SITOP UPS500P/DC/24VDC/7A/5KWS/IP65

***** spare part ***** SITOP UPS500P maintenance-free uninterruptible power supply with USB interface basic device 5 kW input: 24 V DC output: 24 V DC/7 A degree of protection IP65



Input

| | |
|--|--|
| supply voltage at DC rated value | 24 V |
| voltage curve at input | DC |
| input voltage range | 22.5 ... 29 V DC |
| adjustable response value voltage for buffer connection preset | 22.5 V |
| adjustable response value voltage for buffer connection | permanently set |
| input current at rated input voltage 24 V rated value | 7 A; + approx. 2 A with empty energy storage (capacitor) |

Mains buffering

| | |
|---|--|
| type of energy storage | with capacitors |
| design of the mains power cut bridging-connection | 7 A for 49 s or 5 A for 68 s or 3 A for 108 s or 1 A for 351 s |
| energy content of energy storage | 5 kW.s |
| charging current | 2 A |
| adjustable charging current maximum note | permanently set |

Output

| | |
|---|----------------|
| output voltage | 24 V |
| • in normal operation at DC rated value | 24 V |
| • in buffering mode at DC rated value | 24 V |
| formula for output voltage | 24 V \pm 3 % |
| startup delay time typical | 0.6 s |
| voltage increase time of the output voltage typical | 25 ms |
| output voltage in buffering mode at DC | 24 ... 24.7 V |
| output current | |
| • rated value | 7 A |
| • in normal operation | 0 ... 7 A |
| • in buffering mode | 0 ... 7 A |
| peak current | 22.5 A |
| supplied active power typical | 168 W |

Efficiency

| | |
|---|--------|
| efficiency in percent | 96.5 % |
| • at rated output voltage for rated value of the output current typical | |
| power loss [W] | 5.2 W |

Protection and monitoring

| | |
|---|-----|
| product function | Yes |
| • reverse polarity protection against energy storage unit polarity reversal | Yes |
| • reverse polarity protection against input voltage polarity reversal | Yes |

Signaling

| | |
|--|--|
| display version | Normal operation: LED green (OK); Lack of buffer standby: LED red (ALARM); Energy storage > 85%: LED green (CAP. > 85%) |
| • for normal operation | |
| • in buffering mode | Buffered mode: LED yellow (BAT); Prewarning buffer end after expiry of 80% of the available buffer time: LED red (ALARM); Energy storage > 85%: LED green (CAP. > 85%) |
| 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 | IP65 |
| Approvals | |
| certificate of suitability | |
| • CE marking | Yes |
| • UL approval | No |
| • as approval for USA | - |
| certificate of suitability | |
| • EAC approval | Yes |
| • C-Tick | No |
| • shipbuilding approval | No |
| shipbuilding approval | - |
| Marine classification association | |
| • DNV GL | No |
| EMC | |
| standard | |
| • for emitted interference | EN 55022 Class B |
| • for interference immunity | EN 61000-6-2 |
| environmental conditions | |
| ambient temperature | 0 ... 55 °C; with natural convection |
| • during operation | -40 ... +70 °C |
| • during transport | -40 ... +70 °C |
| • during storage | |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| Mechanics | |
| type of electrical connection | Plug-in connection |
| • at input | via connector set |
| • at output | via connector set |
| • for rechargeable battery module | - |
| • for control circuit and status message | - |
| width of the enclosure | 400 mm |
| height of the enclosure | 80 mm |
| depth of the enclosure | 80 mm |
| required spacing | |
| • left | 0 mm |
| • right | 0 mm |
| net weight | 1.9 kg |
| product feature of the enclosure housing can be lined up | No |
| fastening method | Screw mounting |
| electrical accessories | Connector set |
| MTBF at 40 °C | 500 000 h |
| reference code according to IEC 81346-2 | RB |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

