SIEMENS

Data sheet

6EP4134-3AB00-1AY0

SITOP UPS1600 24 V DC/10 A, USB SITOP UPS1600 10 A USB Uninterrupted Power supply with USB interface input: 24 V DC output: DC 24 V/10 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 | 21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software |
| Input current at rated input voltage 24 V Rated value | 14 A; for max. charging current (3 A) |

| Mains buffering | |
|---|--|
| Type of energy storage | with batteries |
| Design of the mains power cut bridging-connection | Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software |
| Charging current | 0.1 A, 3 A |
| adjustable charging current maximum Note | Automatically depending on battery module |

| 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 | Vin - approx. 0.01 x I |
|---|---|
| ON-delay time typical | 60 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 | 10 A |
| • in normal operation | 0 30 A |
| • in buffering mode | 0 30 A |
| Peak current | 30 A |
| Property of the output Short-circuit proof | Yes |
| Design of short-circuit protection | Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min |
| Supplied active power typical | 240 W |

| Supplied active power typical | 240 VV |
|---|--------|
| Efficiency | |
| Efficiency in percent | |
| at rated output current for rated value of the output current typical | 97.7 % |
| • in case of accumulator operation typical | 97.7 % |
| Power loss [W] | |
| at rated output current for rated value of the output current typical | 5.6 W |
| in case of accumulator operation typical | 5.6 W |

Protection and monitoring

Product function

• reverse polarity protection against energy storage unit polarity reversal

• reverse polarity protection against input voltage polarity reversal

Yes

Yes

Signaling

Display version

• 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

• 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

| Product component PC interface | Yes |
|--|--|
| Design of the interface | USB |
| Safety | |
| Galvanic isolation between entrance and outlet | No |
| Operating resource protection class | Class III |
| Certificate of suitability | |
| • CE marking | Yes |
| • as approval for USA | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| ● relating to ATEX | IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus Class I, Div. 2 (ANSI/ISA-12.12.01-2015, CSA C22.2 No. 213-15) Group ABCD, T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4 |
| • C-Tick | Yes |
| Type of certification CB-certificate | Yes |
| Shipbuilding approval | ABS, DNV GL |
| Protection class IP | IP20 |
| EMC | |
| Standard | |
| for emitted interference | EN 55022 Class B |
| • for interference immunity | EN 61000-6-2 |
| Operating data | |
| Ambient temperature | |
| during operation | -25 +70 °C; with natural convection |
| during transport | -40 +85 °C |
| during storage | -40 +85 °C |
| Environmental category acc. to IEC 60721 | Climate class 3K3, no condensation |
| Mechanics | |
| Type of electrical connection | screw-type terminals |
| ● at input | 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG |
| | 24 V DO. 2 30/eW terminals for 0.2 0 mm /24 10 AVVO |
| • at output | 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG |

Required spacing

Width of the enclosure

Height of the enclosure

Depth of the enclosure

• for control circuit and status message

50 mm

125 mm

125 mm

14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG

| • top | 50 mm |
|--|---|
| • bottom | 50 mm |
| ● left | 0 mm |
| • right | 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 | 364 153 h |
| Reference code acc. to DIN EN 81346-2 | Т |
| Other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |