



SITOP DC UPS MODULE/24VDC/6A/USB

SITOP DC UPS module 24 V/6 A uninterruptible power supply with USB 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
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	
• 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	Yes

- polarity reversal
- reverse polarity protection against input voltage polarity reversal

Yes

Signaling

display version

- for normal operation
- in buffering mode

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

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

- 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

- EAC approval
- C-Tick
- shipbuilding approval

Yes

No

Yes

shipbuilding approval

ABS, DNV GL

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- DNV GL

Yes

Yes

EMC

standard

- for emitted interference
- for interference immunity

EN 55022 Class B

EN 61000-6-2

environmental conditions

ambient temperature

- 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

- at input
- at output
- for rechargeable battery module
- for control circuit and status message

screw-type terminals

24 V DC: 2 screw terminals for 1 ... 4 mm²/17 ... 11 AWG

24 V DC: 4 screw terminals for 1 ... 4 mm²/17 ... 11 AWG

24 V DC: 2 screw terminals for 1 ... 4 mm²/17 ... 11 AWG

10 screw terminals for 0.5 ... 2.5 mm²/20 ... 13 AWG

width of the enclosure

50 mm

height of the enclosure

125 mm

depth of the enclosure

125 mm

required spacing

- 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

Yes

fastening method

Snaps onto DIN rail EN 60715 35x7.5/15

electrical accessories	Battery module
MTBF at 40 °C	904 159 h
reference code according to IEC 81346-2	RB
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

