



SITOP DC UPS MODULE 6A WITH USB INTERF.  
 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

Input	
Supply voltage for DC Rated value	24 V
Voltage curve at input	DC
input voltage range	22 ... 29 V DC
Mains buffering	
Type of energy storage	with batteries
Charging current	
<ul style="list-style-type: none"> <li>• 1</li> <li>• 2</li> </ul>	0.2 A 0.4 A
Output	
Output voltage	
<ul style="list-style-type: none"> <li>• in normal operation for DC Rated value</li> <li>• in buffering mode for DC Rated value</li> </ul>	24 V 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 current Rated value	6 A
Property of the output Short-circuit proof	Yes
Active power supplied typical	144 W
Efficiency	
Efficiency in percent	
<ul style="list-style-type: none"> <li>• at rated output current at rated output current typical</li> <li>• in case of accumulator operation typical</li> </ul>	95 % 94.5 %

Active power loss	
<ul style="list-style-type: none"> <li>• at rated output current at rated output current typical</li> </ul>	7 W
<ul style="list-style-type: none"> <li>• in case of accumulator operation typical</li> </ul>	8 W

## Protection and monitoring

Product function	
<ul style="list-style-type: none"> <li>• reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes

## Signaling

Display version	
<ul style="list-style-type: none"> <li>• for normal operation</li> </ul>	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"> <li>• in buffering mode</li> </ul>	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 entrance and outlet	No
Operating resource protection class	Class III
Certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• UL approval</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• as approval for USA</li> </ul>	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul style="list-style-type: none"> <li>• relating to ATEX</li> </ul>	-
<ul style="list-style-type: none"> <li>• C-Tick</li> </ul>	No
Shipbuilding approval	-
Protection class IP	IP20

## EMC

Standard	
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- for emitted interference
- for interference immunity

EN 55022 Class B

EN 61000-6-2

## Operating data

### Ambient temperature

- during operation -25 ... +60 °C
- during transport -40 ... +85 °C
- during storage -40 ... +85 °C

## Mechanics

### Type of electrical connection

- at input screw-type terminals  
24 V DC: 2 screw terminals for 1 ... 4 mm<sup>2</sup>/17 ... 11 AWG
- at output 24 V DC: 4 screw terminals for 1 ... 4 mm<sup>2</sup>/17 ... 11 AWG
- for battery module 24 V DC: 2 screw terminals for 1 ... 4 mm<sup>2</sup>/17 ... 11 AWG
- for control circuit and status message 10 screw terminals for 0.5 ... 2.5 mm<sup>2</sup>/20 ... 13 AWG

### Width of the enclosure

50 mm

### Height of the enclosure

125 mm

### Depth of the enclosure

125 mm

### Required spacing

- top 50 mm
- bottom 50 mm
- left 0 mm
- right 0 mm

### Net weight

0.45 kg

### Product property 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

### Other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)