



SITOP UPS500S BASIC UNIT 5 KWS
 SITOP UPS500S SERVICE-FREE UNINTERRUPTIBLE POWER
 SUPPLY WITH USB-INTERFACE BASIC UNIT 5 KWS INPUT: 24 V
 DC OUTPUT: 24 V/15 A DC DEGREE OF PROTECTION IP20

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 capacitors
Energy content of energy storage	5 kW.s
Charging current	
• 1	1 A
• 2	2 A

Output

Output voltage	
• in normal operation for DC Rated value	24 V
• in buffering mode for DC Rated value	24 V
Formula for output voltage	$24 \text{ V} \pm 3 \%$
ON-delay time typical	0.6 s
Voltage increase time of the output voltage typical	25 ms
Output current Rated value	15 A
Active power supplied typical	360 W

Efficiency

Efficiency in percent	
• at rated output current at rated output current typical	97.5 %
Active power loss	

- at rated output current at rated output current typical

9 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
- in buffering mode

Normal operation: LED green (OK), floating changeover contact "OK/Bat" 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"; 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 buffer end after expiry of 80% of the available buffer time: 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

- CE marking
- UL approval
- as approval for USA
- relating to ATEX
- C-Tick

Yes

Yes

cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259

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No

Shipbuilding approval

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Protection class IP

IP20

EMC

Standard

- for emitted interference
- for interference immunity

EN 55022 Class B

EN 61000-6-2

Operating data

Ambient temperature	
• during operation	0 ... 60 °C
• during transport	-40 ... +70 °C
• during storage	-40 ... +70 °C

Mechanics

Type of electrical connection	screw-type terminals
• at input	24 V DC: 2 screw terminals for 1 ... 4 mm ² /17 ... 11 AWG
• at output	24 V DC: 4 screw terminals for 1 ... 4 mm ² /17 ... 11 AWG
• for battery module	-
• for control circuit and status message	10 screw terminals for 0.5 ... 2.5 mm ² /20 ... 13 AWG
Width of the enclosure	120 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	1 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	Extension module SITOP UPS501S
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)