

SITOP UPS500S BASIC UNIT 2.5 KWS
 SITOP UPS500S SERVICE-FREE UNINTERRUPTIBLE POWER
 SUPPLY WITH USB-INTERFACE BASIC UNIT 2.5 KWS INPUT: 24
 V DC OUTPUT: 24 V/15 A DC DEGREE OF PROTECTION IP20



Input	
Supply voltage at 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	2.5 kW.s
Charging current	
• 1	1 A
• 2	2 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	$24 \text{ V} \pm 3 \%$
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	
<ul style="list-style-type: none"> at rated output current at rated output current typical 	97.5 %
Active power loss	
<ul style="list-style-type: none"> at rated output current at rated output current typical 	9 W
Protection and monitoring	
Product function	
<ul style="list-style-type: none"> reverse polarity protection against energy storage unit polarity reversal 	Yes
<ul style="list-style-type: none"> reverse polarity protection against input voltage polarity reversal 	Yes
Signaling	
Display version	
<ul style="list-style-type: none"> for normal operation 	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
<ul style="list-style-type: none"> in buffering mode 	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	
<ul style="list-style-type: none"> CE marking 	Yes
<ul style="list-style-type: none"> UL approval 	Yes
<ul style="list-style-type: none"> as approval for USA 	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
<ul style="list-style-type: none"> relating to ATEX 	-
<ul style="list-style-type: none"> C-Tick 	No
Shipbuilding approval	-

Protection class IP	IP20
EMC	
Standard	EN 55022 Class B
<ul style="list-style-type: none"> • for emitted interference • for interference immunity 	EN 61000-6-2
Operating data	
Ambient temperature	0 ... 60 °C
<ul style="list-style-type: none"> • during operation • during transport • during storage 	-40 ... +70 °C
Environmental category acc. to IEC 60721	Climate class 3K3, no condensation
Mechanics	
Type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> • at input • at output • for battery module • for control circuit and status message 	24 V DC: 2 screw terminals for 1 ... 4 mm ² /17 ... 11 AWG 24 V DC: 4 screw terminals for 1 ... 4 mm ² /17 ... 11 AWG - 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	50 mm
<ul style="list-style-type: none"> • top • bottom • left • right 	50 mm 50 mm 0 mm 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)