

SITOP UPS500P 7 A/5 KWS, IP65  
 SITOP UPS500P Maintenance free Uninterruptible Power supply  
 With USB interface Basic device 5 kW input: 24 V DC output: 24 V  
 DC/7 A Degree of protection IP65



Input	
Supply voltage at DC Rated value	24 V
Voltage curve at input	DC
input voltage range	22.5 ... 29 V DC
Adjustable response value voltage for buffer connection preset	22.5 V
Input current at rated input voltage 24 V Rated value	7 A; + approx. 2 A with empty energy storage (capacitor)
Mains buffering	
Type of energy storage	with capacitors
Design of the mains power cut bridging-connection	7 A for 49 s or 5 A for 68 s or 3 A for 108 s or 1 A for 351 s
Energy content of energy storage	5 kW.s
Charging current	2 A
adjustable charging current maximum Note	permanently set
Output	
Output voltage	
<ul style="list-style-type: none"> <li>• in normal operation at DC Rated value</li> <li>• in buffering mode at DC Rated value</li> </ul>	24 V
Formula for output voltage	24 V ± 3 %

ON-delay time typical	0.6 s
Voltage increase time of the output voltage typical	25 ms
Output voltage in buffering mode at DC	24 ... 24.7 V
Output current	
• Rated value	7 A
• in normal operation	0 ... 7 A
• in buffering mode	0 ... 7 A
Peak current	22.5 A
Supplied active power typical	168 W

## Efficiency

Efficiency in percent	
• at rated output current for rated value of the output current typical	96.5 %
Power loss [W]	
• at rated output current for rated value of the output current typical	5.2 W

## Protection and monitoring

Product function	
• reverse polarity protection against energy storage unit polarity reversal	Yes
• reverse polarity protection against input voltage polarity reversal	Yes

## Signaling

Display version	
• for normal operation	Normal operation: LED green (OK); Lack of buffer standby: LED red (ALARM); Energy storage > 85%: LED green (CAP. > 85%)
• in buffering mode	Buffered mode: LED yellow (BAT); Prewarning buffer end after expiry of 80% of the available buffer time: LED red (ALARM); Energy storage > 85%: LED green (CAP. > 85%)

## 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	Yes
• as approval for USA	-
• relating to ATEX	-
• C-Tick	No
Shipbuilding approval	-
Protection class IP	IP65

## EMC

Standard	
• for emitted interference	EN 55022 Class B
• for interference immunity	EN 61000-6-2

## Operating data

Ambient temperature	
• during operation	0 ... 55 °C; with natural convection
• during transport	-40 ... +70 °C
• during storage	-40 ... +70 °C
Environmental category acc. to IEC 60721	Climate class 3K3, no condensation

## Mechanics

Type of electrical connection	Plug-in connection
• at input	via connector set
• at output	via connector set
• for battery module	-
• for control circuit and status message	-
Width of the enclosure	400 mm
Height of the enclosure	80 mm
Depth of the enclosure	80 mm
Required spacing	
• left	0 mm
• right	0 mm
Net weight	1.9 kg
Product feature of the enclosure housing for side-by-side mounting	No
Mounting type	Screw mounting
Electrical accessories	Connector set
MTBF at 40 °C	8 760 h
Reference code acc. to DIN EN 81346-2	T
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)