

SITOP UPS500P 7 A/10 KWS, IP65  
 SITOP UPS500P Maintenance free Uninterruptible Power supply  
 With USB interface Basic device 10 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	10 kW.s
Charging current	2 A
adjustable charging current maximum Note	permanently set
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 V $\pm$ 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

- |  |                    |
|--|--------------------|
| • at input                               | Plug-in connection |
| • at output                              | via connector set  |
| • for battery module                     | via connector set  |
| • for control circuit and status message | -                  |
|  | -                  |

### Width of the enclosure

470 mm

### Height of the enclosure

80 mm

### Depth of the enclosure

80 mm

### Required spacing

- |         |      |
|---------|------|
| • left  | 0 mm |
| • right | 0 mm |

### Net weight

2.2 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 identifier acc. to DIN EN 81346-2

T

### Other information

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