

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
Adjustable response value voltage for buffer connection	permanently set
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	24 V
<ul style="list-style-type: none"> <li>in normal operation at DC Rated value</li> </ul>	

<ul style="list-style-type: none"> <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	
<ul style="list-style-type: none"> <li>• Rated value</li> </ul>	7 A
<ul style="list-style-type: none"> <li>• in normal operation</li> </ul>	0 ... 7 A
<ul style="list-style-type: none"> <li>• in buffering mode</li> </ul>	0 ... 7 A
Peak current	22.5 A
Supplied active power typical	168 W

Efficiency	
Efficiency in percent	
<ul style="list-style-type: none"> <li>• at rated output current for rated value of the output current typical</li> </ul>	96.5 %
Power loss [W]	
<ul style="list-style-type: none"> <li>• at rated output current for rated value of the output current typical</li> </ul>	5.2 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); Lack of buffer standby: LED red (ALARM); Energy storage > 85%: LED green (CAP. > 85%) 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%)
<ul style="list-style-type: none"> <li>• in buffering mode</li> </ul>	

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>• as approval for USA</li> </ul>	-
<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	IP65

## EMC

Standard	
<ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	EN 55022 Class B EN 61000-6-2

## environmental conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during transport</li> <li>• during storage</li> </ul>	0 ... 55 °C; with natural convection -40 ... +70 °C -40 ... +70 °C
Environmental category acc. to IEC 60721	Climate class 3K3, 5 ... 95% no condensation

## Mechanics

Type of electrical connection	Plug-in connection
<ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> <li>• for battery module</li> <li>• for control circuit and status message</li> </ul>	via connector set via connector set - -
Width of the enclosure	470 mm
Height of the enclosure	80 mm
Depth of the enclosure	80 mm
Required spacing	
<ul style="list-style-type: none"> <li>• left</li> <li>• right</li> </ul>	0 mm 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	500 000 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)