

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
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	5 kW.s
Charging current	2 A
adjustable charging current maximum Note	permanently set
Output	
Output voltage	24 V
<ul style="list-style-type: none"> in normal operation at DC Rated value 	

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

Efficiency	
Efficiency in percent	
<ul style="list-style-type: none"> • at rated output current for rated value of the output current typical 	96.5 %
Power loss [W]	
<ul style="list-style-type: none"> • at rated output current for rated value of the output current typical 	5.2 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); 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"> • in buffering mode 	

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"> • as approval for USA 	-
<ul style="list-style-type: none"> • relating to ATEX 	-
<ul style="list-style-type: none"> • C-Tick 	No

Shipbuilding approval	-
Protection class IP	IP65

EMC

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

environmental conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	0 ... 55 °C; with natural convection
<ul style="list-style-type: none"> • during transport 	-40 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-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"> • at input 	via connector set
<ul style="list-style-type: none"> • at output 	via connector set
<ul style="list-style-type: none"> • for battery module 	-
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • 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	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)