

SITOP UPS500P/DC/24VDC/7A/5KWS/IP65

***** spare part ***** 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	
• in normal operation at DC rated value	24 V
• in buffering mode at DC rated value	24 V
formula for output voltage	$24 \text{ V} \pm 3 \%$
startup 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 voltage for rated value of the output current typical	96.5 %
power loss [W]	
• at rated output voltage 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	
<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%)
<ul style="list-style-type: none"> • 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 input and output	No
operating resource protection class	Class III
protection class IP	IP65
Approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
<ul style="list-style-type: none"> • UL approval 	No
<ul style="list-style-type: none"> • as approval for USA 	-
certificate of suitability	
<ul style="list-style-type: none"> • EAC approval 	Yes
<ul style="list-style-type: none"> • C-Tick 	No
<ul style="list-style-type: none"> • shipbuilding approval 	No
shipbuilding approval	-
Marine classification association	
<ul style="list-style-type: none"> • DNV GL 	No
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 according 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 rechargeable 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 can be lined up	No
fastening method	Screw mounting
electrical accessories	Connector set
MTBF at 40 °C	500 000 h
reference code according to IEC 81346-2	RB
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

