



SITOP DC UPS MODULE/24VDC/6A/SERIAL

SITOP DC UPS module 24 V/6 A uninterruptible power supply with serial interface
input: 24 V DC/6.85 A output: 24 V DC/6 A *Ex approval no longer available*

Input	
supply voltage at DC rated value	24 V
input voltage	DC 22 ... 29 V
adjustable response value voltage for buffer connection preset	22.5 V
adjustable response value voltage for buffer connection	22 ... 25.5 V; Adjustable in 0.5 V increments
input current at rated input voltage 24 V rated value	6 A; + approx. 0.6 A with empty battery
Mains buffering	
type of energy storage	with batteries
design of the mains power cut bridging-connection	Dependent on connected battery and load current, see selection table battery module and mains buffering times as well as the relevant important information notes!
charging current	0.2 A, 0.4 A
adjustable charging current maximum note	factory setting approx. 0.4 A
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	$V_{in} - \text{approx. } 0.5 \text{ V}$
startup delay time typical	1 s
voltage increase time of the output voltage typical	60 ms
output voltage in buffering mode at DC	19 ... 28.5 V
output current	
• rated value	6 A
• in normal operation	0 ... 6 A
• in buffering mode	0 ... 6 A
peak current	6.3 A
property of the output short-circuit proof	Yes
supplied active power typical	144 W
Efficiency	
efficiency in percent	
• at rated output voltage for rated value of the output current typical	95 %
• in case of operation on rechargeable battery typical	94.5 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	7 W
• in case of operation on rechargeable battery typical	8 W
Protection and monitoring	
product function	
• 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	<p>Normal operation: LED green (OK), floating changeover contact "Bat/OK" to setting "OK" ("OK" means: Voltage of the supplying power supply unit is greater than cut-in threshold set at the DC UPS module); Lack of buffer standby: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current capacity: DC 60 V/1 A or AC 30 V /1 A</p> <p>Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed</p>
<ul style="list-style-type: none"> for normal operation in buffering mode 	
Interface	
product component PC interface	Yes
design of the interface	serial
Safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
Approvals	
certificate of suitability	<ul style="list-style-type: none"> CE marking UL approval as approval for USA
<ul style="list-style-type: none"> CE marking UL approval as approval for USA 	
<ul style="list-style-type: none"> CE marking UL approval as approval for USA 	
certificate of suitability	<ul style="list-style-type: none"> EAC approval C-Tick shipbuilding approval
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shipbuilding approval	ABS, DNV GL
Marine classification association	<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) DNV GL
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EMC	
standard	<ul style="list-style-type: none"> for emitted interference for interference immunity
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environmental conditions	
ambient temperature	<ul style="list-style-type: none"> during operation during transport during storage
<ul style="list-style-type: none"> during operation during transport during storage 	
<ul style="list-style-type: none"> during operation during transport during storage 	
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
Mechanics	
type of electrical connection	<ul style="list-style-type: none"> at input at output for rechargeable battery module for control circuit and status message
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width of the enclosure	50 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	<ul style="list-style-type: none"> top bottom left right
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<ul style="list-style-type: none"> top bottom left right 	
net weight	0.45 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Battery module

MTBF at 40 °C	966 183 h
reference code according to IEC 81346-2	RB
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

