



### SITOP DC UPS MODULE/24VDC/15A/SERIAL

SITOP DC UPS module 24 V/15 A uninterruptible power supply with serial interface input: 24 V DC/16 A output: 24 V DC/15 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	15 A; + approx. 1 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	0.35 A, 0.7 A
adjustable charging current maximum note	factory setting approx. 0.7 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	15 A
• in normal operation	0 ... 15 A
• in buffering mode	0 ... 15 A
peak current	15.7 A
property of the output short-circuit proof	Yes
supplied active power typical	360 W
Efficiency	
efficiency in percent	
• at rated output voltage for rated value of the output current typical	96.2 %
• in case of operation on rechargeable battery typical	96 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	14 W
• in case of operation on rechargeable battery typical	15 W
Protection and monitoring	
product function	
• reverse polarity protection against energy storage unit polarity reversal	Yes

<ul style="list-style-type: none"> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes
<b>Signaling</b>	
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 &gt; 85%: LED green (Bat &gt; 85%), floating NO contact "Bat &gt; 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 &lt; 20.4 VDC: LED red (alarm), floating changeover contact "Alarm/Bat" to setting "Alarm"; Energy storage &gt; 85%: LED green (Bat &gt; 85%), floating NO contact "Bat &gt; 85" closed</p>
<ul style="list-style-type: none"> <li>for normal operation</li> <li>in buffering mode</li> </ul>	
<b>Interface</b>	
product component PC interface	Yes
design of the interface	serial
<b>Safety</b>	
galvanic isolation between input and output	No
operating resource protection class	Class III
protection class IP	IP20
<b>Approvals</b>	
certificate of suitability	<ul style="list-style-type: none"> <li>CE marking</li> <li>UL approval</li> <li>as approval for USA</li> </ul>
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certificate of suitability	<ul style="list-style-type: none"> <li>EAC approval</li> <li>C-Tick</li> <li>shipbuilding approval</li> </ul>
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shipbuilding approval	ABS, DNV GL
Marine classification association	<ul style="list-style-type: none"> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> <li>DNV GL</li> </ul>
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<b>EMC</b>	
standard	<ul style="list-style-type: none"> <li>for emitted interference</li> <li>for interference immunity</li> </ul>
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<b>environmental conditions</b>	
ambient temperature	<ul style="list-style-type: none"> <li>during operation</li> <li>during transport</li> <li>during storage</li> </ul>
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environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>Mechanics</b>	
type of electrical connection	<ul style="list-style-type: none"> <li>screw-type terminals</li> <li>24 V DC: 2 screw terminals for 1 ... 4 mm<sup>2</sup>/17 ... 11 AWG</li> <li>24 V DC: 4 screw terminals for 1 ... 4 mm<sup>2</sup>/17 ... 11 AWG</li> <li>24 V DC: 2 screw terminals for 1 ... 4 mm<sup>2</sup>/17 ... 11 AWG</li> <li>10 screw terminals for 0.5 ... 2.5 mm<sup>2</sup>/20 ... 13 AWG</li> </ul>
<ul style="list-style-type: none"> <li>at input</li> <li>at output</li> <li>for rechargeable battery module</li> <li>for control circuit and status message</li> </ul>	
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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"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>
<ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	
<ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	
<ul style="list-style-type: none"> <li>top</li> <li>bottom</li> <li>left</li> <li>right</li> </ul>	
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	725 689 h
reference code according to IEC 81346-2	RB
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

