



SITOP UPS500S/DC/24VDC/15A/2.5KWS

SITOP UPS500S Maintenance free uninterruptible power supply with USB interface Basic device 2.5 kWs input: 24 V DC output: 24 V DC/15 A degree of protection IP20 \*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	15.2 A; + approx. 2.3 A with empty energy storage (capacitor)
memory	
type of energy storage	with capacitors
design of the mains power cut bridging-connection	15 A for 3 s or 10 A for 6 s or 5 A for 15 s or 2 A for 38 s; longer buffering times with expansion modules
buffering time in the event of power failure	0.05 min
energy content of energy storage	2.5 kW.s
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 V ± 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	15 A
• in normal operation	0 ... 15 A
• in buffering mode	0 ... 15 A
peak current	25 A
property of the output short-circuit proof	Yes
charging current	1 A, 2 A; factory setting approx. 1 A
power loss	
efficiency in percent	
• at rated output voltage for rated value of the output current typical	97.5 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	9 W
supplied active power typical	360 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

display version	<ul style="list-style-type: none"> <li>for normal operation</li> <li>in buffering mode</li> </ul>	Normal operation: LED green (OK), floating changeover contact "OK/Bat" 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"; 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
		Buffered mode: LED yellow (BAT), floating changeover contact "OK/BAT" to setting "BAT"; Prewarning buffer end after expiry of 80% of the available buffer time: LED red (ALARM), floating changeover contact "ALARM/BAT" to setting "ALARM"; Energy storage > 85%: LED green (BAT > 85%), floating NO contact "BAT > 85" closed
<b>interfaces</b>		
product component PC interface	Yes	
product function communication function	No	
design of the interface	USB	
<b>safety</b>		
galvanic isolation between input and output	No	
operating resource protection class	Class III	
protection class IP	IP20	
standard		
• for emitted interference	EN 55022 Class B	
• for interference immunity	EN 61000-6-2	
<b>standards, specifications, approvals</b>		
certificate of suitability		
• CE marking	Yes	
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
• CSA approval	Yes; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
• EAC approval	Yes	
MTBF at 40 °C	638 570 h	
<b>standards, specifications, approvals marine classification</b>		
shipbuilding approval	Yes	
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	
• Det Norske Veritas (DNV)	Yes	
<b>standards, specifications, approvals Environmental Product Declaration</b>		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]		
• total	328.8 kg	
• during manufacturing	46.4 kg	
• during operation	281.6 kg	
• after end of life	0.74 kg	
<b>ambient conditions</b>		
ambient temperature		
• during operation	0 ... 60 °C; with natural convection	
• during transport	-40 ... +70 °C	
• during storage	-40 ... +70 °C	
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	
<b>connection method</b>		
type of electrical connection	screw-type terminals	
• at input	24 V DC: 2 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG	
• at output	24 V DC: 4 screw terminals for 1 ... 4 mm <sup>2</sup> /17 ... 11 AWG	
• for control circuit and status message	10 screw terminals for 0.5 ... 2.5 mm <sup>2</sup> /20 ... 13 AWG	
<b>mechanical data</b>		
width × height × depth of the enclosure	120 × 125 × 125 mm	
installation width × mounting height	120 × 225 mm	
required spacing		
• top	50 mm	
• bottom	50 mm	
• left	0 mm	
• right	0 mm	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	
• standard rail mounting	Yes	

• S7 rail mounting	No
• wall mounting	No
housing can be lined up	Yes
net weight	1 kg
<b>accessories</b>	
electrical accessories	Extension module SITOP UPS501S
<b>further information internet links</b>	
internet link	<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>
<b>additional information</b>	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
<b>security information</b>	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a>. (V4.7)</p>

<b>Classifications</b>			
		Version	Classification
	eClass	12	27-04-07-05
	eClass	9.1	27-04-07-05
	eClass	9	27-04-07-05
	eClass	8	27-04-06-90
	eClass	7.1	27-04-06-90
	eClass	6	27-04-06-90
	ETIM	9	EC000382
	ETIM	8	EC000382
	ETIM	7	EC000382
	IDEA	4	4149
	UNSPSC	15	39-12-10-11

<b>Approvals Certificates</b>	
General Product Approval	



[Manufacturer Declaration](#)

[Declaration of Conformity](#)



General Product Approval	For use in hazardous locations	Marine / Shipping	Environment
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