## SIEMENS

## Data sheet

## 6EP1933-2EC51-8AA0



SITOP UPS500S/DC/DC24V/15A/5KWS/EX

SITOP UPS500S EX maintenance-free uninterruptible power supply with USB interface basic device 5 kWs input: 24 V DC output: 24 V DC/15 A degree of protection IP20

input			
supply voltage at DC rated value	24 V		
input voltage at 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 9 s or 10 A for 15 s or 5 A for 31 s or 2 A for 76 s; longer buffering times with expansion modules		
buffering time in the event of power failure	0.15 min		
energy content of energy storage	5 kW.s		
output			
output voltage			
<ul> <li>in normal operation at DC rated value</li> </ul>	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		
efficiency			
efficiency in percent			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.5 %		
power loss [W]			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	9 W		
supplied active power typical	360 W		
protection and monitoring			
product function			
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes		
<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	Yes		

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display version			
<ul> <li>for normal operation</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		
• in buffering mode	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		
interfaces			
product component PC interface	Yes		
product function communication function	No		
design of the interface	USB		
safety			
galvanic isolation between input and output	No		
operating resource protection class	Class III		
protection class IP	IP20		
standard			
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B		
<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2		
standards, specifications, approvals			
certificate of suitability			
• CE marking	Yes		
• UL approval	Yes		
CSA approval	Yes		
UKCA marking	Yes		
MTBF at 40 °C	459 137 h		
standards, specifications, approvals hazardous environments			
certificate of suitability			
• IECEx	Yes		
• ATEX	Yes		
cCSAus, Class 1, Division 2	Yes		
CCC for hazardous zone according to GB standard	Yes		
standards, specifications, approvals marine classification			
shipbuilding approval	No		
Marine classification association			
American Bureau of Shipping Europe Ltd. (ABS)	No		
Det Norske Veritas (DNV)	No; in preparation		
standards, specifications, approvals Environmental Product De			
Environmental Product Declaration	Yes		
Global Warming Potential [CO2 eq]			
• total	328.8 kg		
during manufacturing	46.4 kg		
during manalectaring     during operation	281.6 kg		
after end of life	0.74 kg		
ambient conditions			
ambient temperature <ul> <li>during operation</li> </ul>	0 60 °C; with natural convection		
	-40 +70 °C		
during transport	-40 +70 °C		
environmental category according to IEC 60721			
environmental category according to IEC 60721 connection method	Climate class 3K3, 5 95% no condensation		
	corow terminal		
type of electrical connection	screw terminal		
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		
mechanical data	400 x 405 x 405 mm		
width × height × depth of the enclosure	120 × 125 × 125 mm		

required spacing

installation width × mounting height

120 × 225 mm

• top	50 mm				
• bottom	50 mm				
• left	0 mm	0 mm			
● right	0 mm	0 mm			
fastening method	Snaps onto DIN rail EN 60715	Snaps onto DIN rail EN 60715 35x7.5/15			
<ul> <li>standard rail mounting</li> </ul>	Yes	Yes			
S7 rail mounting		No			
wall mounting		No			
housing can be lined up		Yes			
net weight	1 kg				
accessories	Extension module SITOR LIPS	5019			
electrical accessories further information internet links	Extension module SITOP UPS	0015			
internet link					
to website: Industry Mall	https://mall.industry.siemens.co	https://mall.industry.ciomana.com			
<ul> <li>to website. Industry Main</li> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstclo				
to website: Industrial communication		https://siemens.com/industrial-communication			
• to website: CAx-Download-Manager	https://siemens.com/cax				
to website: Industry Online Support		https://support.industry.siemens.com			
additional information					
other information	Specifications at rated input vol	tage and ambient tempe	rature +25 °C (unless		
	otherwise specified)	otherwise specified)			
security information security information	Siemens provides products and	deskaller i til til statisti			
	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 www.siemens.com/cybersecurity-industry. 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 https://www.siemens.com/cert. (V4.7)				
Classifications		. ,			
		Version	Classification		
	eClass	14	27-04-07-05		
	eClass	14	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		
Approvale Cartificator			2000002		
Approvals Certificates	hazardous locations				
General Product Approval For use in	nazardous locations				
Manufacturer Declara- tion	🖾 (Ex)		CCC-Ex		
EG-Konf. IECE	ATEX	BUREAU			
EG-Konf. IECE For use in hazard- Environment	x ATEX	BUREAU VERITAS			



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