# **SIEMENS**

Data sheet 6EP1933-2EC51



## SITOP UPS500S/DC/24VDC/15A/5KWS

SITOP UPS500S 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	
<ul> <li>in buffering mode at DC rated value</li> </ul>	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		
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		
<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	

display version			
• for normal operation	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			
for emitted interference	EN 55022 Class B		
for interference immunity	EN 61000-6-2		
standards, specifications, approvals			
certificate of suitability			
CE marking	Yes		
UL approval			
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259		
EAC approval	Yes; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes		
MTBF at 40 °C	459 137 h		
	459 137 11		
standards, specifications, approvals marine classification	Vee		
shipbuilding approval	Yes		
Marine classification association	V.		
American Bureau of Shipping Europe Ltd. (ABS)	Yes		
Det Norske Veritas (DNV)	Yes		
standards, specifications, approvals Environmental Product De			
Environmental Product Declaration	Yes		
global warming potential [CO2 eq]			
● total	328.8 kg		
during manufacturing	46.4 kg		
<ul><li>during operation</li></ul>	281.6 kg		
after end of life	0.74 kg		
ambient conditions			
ambient temperature			
<ul><li>during operation</li></ul>	0 60; with natural convection		
during transport	-40 +70		
during storage	-40 +70		
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation		
connection method			
type of electrical connection	screw terminal		
• at input	24 V DC: 2 screw terminals for 1 4 mm²/17 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			
	120 × 125 × 125 mm		
mechanical data width × height × depth of the enclosure	120 × 125 × 125 mm 120 mm × 225 mm		
mechanical data  width × height × depth of the enclosure installation width × mounting height			
mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	120 mm × 225 mm		
mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top	120 mm × 225 mm 50 mm		
mechanical data  width × height × depth of the enclosure installation width × mounting height required spacing  • top • bottom	120 mm × 225 mm  50 mm 50 mm		
mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing  • top  • bottom  • left	120 mm × 225 mm  50 mm  50 mm  0 mm		
mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing  • top  • bottom  • left  • right	120 mm × 225 mm  50 mm  50 mm  0 mm		
mechanical data  width × height × depth of the enclosure installation width × mounting height  required spacing  • top  • bottom  • left	120 mm × 225 mm  50 mm  50 mm  0 mm		

<ul> <li>S7 rail mounting</li> </ul>	No			
wall mounting	No			
housing can be lined up	Yes			
net weight	1 kg			
accessories				
electrical accessories	Extension module SITOP UPS501S			
further information internet links				
internet link				
• to website: Industry Mall	https://mall.industry.siemens.com			
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud			
<ul><li>to web page: power supplies</li></ul>	https://siemens.com/sitop			
• to website: CAx-Download-Manager	https://siemens.com/cax			
<ul> <li>to website: Industry Online Support</li> </ul>	https://support.industry.siemens.com			

additional information

other information

Specifications at rated input voltage and ambient temperature +25  $^{\circ}\text{C}$  (unless otherwise specified)

# security information

security information

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#### Classifications

	Version	Classification
eClass	14	27-04-07-05
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

### Approvals Certificates

General Product Approval





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Maritime application

Environment









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