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		
 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	
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		
 reverse polarity protection against energy storage unit polarity reversal 	Yes	
 reverse polarity protection against input voltage polarity reversal 	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 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			
• in buffering mode				
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	Voc			
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 Declaration				
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			
ambient conditions				
ambient temperature				
during operation	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 ² /17 11 AWG			
for control circuit and status message	10 screw terminals for 0.5 2.5 mm ² /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 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 0 mm			

S7 rail mounting	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		
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud		
to web page: power supplies	https://siemens.com/sitop		

https://siemens.com/cax

otherwise specified)

https://support.industry.siemens.com

additional information

• to website: CAx-Download-Manager

• to website: Industry Online Support

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless

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

Marine / Shipping





Manufacturer Declaration Declaration of Conformity





Marine / Shipping

Environment





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