SIEMENS

Data sheet 6EP1933-2EC41



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

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 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	
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 operationin buffering mode	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	
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	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	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes	
 Det Norske Veritas (DNV) 	Yes	
standards, specifications, approvals Environmental Product Dec	claration	
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 mm²/17 11 AWG	
 for control circuit and status message 	10 screw terminals for 0.5 2.5 mm²/20 13 AWG	
mechanical data		
width × height × depth of the enclosure	120 × 125 × 125 mm	
installation width × mounting height	120 mm × 225 mm	
required spacing		
- ton	50 mm	
• top		
topbottom	50 mm	
•	50 mm 0 mm	
• bottom		
bottomleft	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			
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 voltage and ambient temperature +25 °C (unless otherwise specified)			

security information security information

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 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	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

Marine / Shipping

Environment











last modified: 11/25/2024 🖸