SIEMENS

Data sheet

6EP1933-2EC51

SITOP UPS500S BASIC UNIT 5 KWS

SITOP UPS500S service-free uninterruptible power supply with USBinterface basic unit 5 kWs input: 24 V DC output: 24 V/15 A DC degree of protection IP20

Input	
Supply voltage at DC Rated value	24 V
Voltage curve at input	DC
input voltage range	22 29 V DC
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)

Mains buffering	
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
Energy content of energy storage	5 kW.s
Charging current	
• 1	1 A
• 2	2 A
adjustable charging current maximum Note	factory setting approx. 1 A

Output

24 V
24 V
$24 V \pm 3 \%$
0.6 s
25 ms
24 24.7 V
15 A
0 15 A
0 15 A
25 A
360 W
97.5 %
9 W
Yes
Yes
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

Interface

Product component PC interface	Yes
Design of the interface	USB
Safety	
Galvanic isolation between entrance and outlet	No
Operating resource protection class	Class III
Certificate of suitability	
• CE marking	Yes
• as approval for USA	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
 relating to ATEX 	
• C-Tick	Yes
Shipbuilding approval	GL, ABS
Protection class IP	IP20
EMC	
Standard	
• for emitted interference	EN 55022 Class B
 for interference immunity 	EN 61000-6-2
Operating data	
Ambient temperature	
 during operation 	0 60 °C; with natural convection
 during transport 	-40 +70 °C
 during storage 	-40 +70 °C
Environmental category acc. to IEC 60721	Climate class 3K3, no condensation
Mechanics	
Type of electrical connection	screw-type terminals
• 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 battery module 	-
 for control circuit and status message 	10 screw terminals for 0.5 2.5 mm²/20 13 AWG
Width of the enclosure	120 mm
Height of the enclosure	125 mm
Depth of the enclosure	125 mm
Required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Net weight	1 kg
Product feature of the enclosure housing for side-by-	Yes
side mounting	
Mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Extension module SITOP UPS501S

MTBF at 40 °C	459 137 h
Equipment marking acc. to DIN EN 81346-2	Т
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)