SIEMENS

Data sheet

6EP4136-3AB00-1AY0

SITOP UPS1600 24 V DC/20 A, USB SITOP UPS1600 20 A USB Uninterrupted Power supply with USB interface input: 24 V DC output: 24 V DC/20 A



Input	
Supply voltage at DC Rated value	24 V
Voltage curve at input	DC
input voltage range	21 29 V DC
Adjustable response value voltage for buffer connection preset	21.5 V
Adjustable response value voltage for buffer connection	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25 V DC or via software
Input current at rated input voltage 24 V Rated value	25 A; for max. charging current (4 A)
Mains buffering	
Type of energy storage	with batteries
Design of the mains power cut bridging-connection	Adjustable range using rotary coding switch: 0.5 min, 1 min, 2 min, 5 min, 10 min, 20 min, max. buffering time or via software
Design of the mains power cut bridging-connection Charging current	
	min, 5 min, 10 min, 20 min, max. buffering time or via software
Charging current	min, 5 min, 10 min, 20 min, max. buffering time or via software 0.1 A, 4 A
Charging current adjustable charging current maximum Note	min, 5 min, 10 min, 20 min, max. buffering time or via software 0.1 A, 4 A
Charging current adjustable charging current maximum Note Output	min, 5 min, 10 min, 20 min, max. buffering time or via software 0.1 A, 4 A

Vin - approx. 0.2 V
60 s
60 ms 18.5 27 V
18.5 27 V
20 A
20 A
0 60 A
0 60 A
60 A
Yes
Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
480 W
97.7 %
97.7 %
10 W
10 W
Yes
Yes
Normal operation: LED green (OK), floating changeover contact "Bat/OK" 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"; Battery replacement required: LED red (alarm) flashing with approx. 0.25 Hz, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NO contact "Bat > 85" closed; Permissible contact current

• in buffering mode

Buffered mode: LED yellow (Bat), floating changeover contact "OK/Bat" to setting "Bat"; Prewarning battery voltage < 20.4 VDC: 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 	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus Class I, Div. 2 (ANSI/ISA-12.12.01-2015, CSA C22.2 No. 213-15) Group ABCD, T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4	
• C-Tick	Yes	
Type of certification CB-certificate	Yes	
Shipbuilding approval	ABS, DNV GL	
Protection class IP	IP20	
EMC		
Standard		
• for emitted interference	EN 55022 Class B	
• for interference immunity	EN 61000-6-2	
environmental conditions		
Ambient temperature		
• during operation	-25 +70 °C; with natural convection	
• during transport	-40 +85 °C	
 during storage 	-40 +85 °C	
Environmental category acc. to IEC 60721	Climate class 3K3, 5 95% no condensation	
Mechanics		
Type of electrical connection	screw-type terminals	
• at input	24 V DC: 2 screw terminals for 0.2 6 mm ² /24 13 AWG	
● at output	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG	
• for battery module	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG	
• for control circuit and status message	14 screw terminals for 0.2 1.5 mm²/24 16 AWG	
Width of the enclosure	50 mm	
Height of the enclosure	139 mm	
Depth of the enclosure	125 mm	
Required spacing		

• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Net weight	0.41 kg
Product feature of the enclosure housing for side-by- side mounting	Yes
Mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Battery module
MTBF at 40 °C	358 897 h
Reference code acc. to DIN EN 81346-2	т
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)