SIEMENS

Data sheet

6EP4137-3AB00-1AY0

SITOP UPS1600 24 V DC/40 A, USB SITOP UPS1600 40 A USB Uninterrupted Power supply with USB interface input: 24 V DC output: 24 V DC/40 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	46 A; for max. charging current (5 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
charging current	0.1 A, 5 A
adjustable charging current maximum note	Automatically depending on battery module
Output	
output voltage	
 in normal operation at DC rated value 	24 V
• in buffering mode at DC rated value	24 V



Vin - approx. 0.2 V
60 s
60 ms
18.5 27 V
40 A
0 120 A
0 120 A
120 A
Yes
Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
960 W
98.5 %
98.5 %
15 W
15 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

Ö PNAP

• 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 0.5 16 mm ² /20 6 AWG	
● at output	24 V DC: 2 screw terminals for 0.5 16 mm²/20 6 AWG	
 for battery module 	24 V DC: 2 screw terminals for 0.5 16 mm²/20 6 AWG	
 for control circuit and status message 	14 screw terminals for 0.2 1.5 mm²/24 16 AWG	
width of the enclosure	70 mm	
height of the enclosure	139 mm	
depth of the enclosure	150 mm	
required spacing		

• top	50 mm
• bottom	50 mm
• left	0 mm
● right	0 mm
net weight	0.65 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	330 515 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)

