SIEMENS

Data sheet

Lineral

6EP4136-3AB00-2AY0

SITOP UPS1600 24V/20A ETHERN./PROFIN. SITOP UPS1600 20 A Ethernet/ PROFINET Uninterrupted power supply with Ethernet / PROFINET interface / OPC UA Server / Web server 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	21 25 V; Adjustable: 21 V, 21.5 V, 22 V, 22.5 V, 23 V, 24 V, 25
connection	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
Charging current	0.1 A, 4 A
adjustable charging current maximum Note	Automatically depending on battery module
Output	
Output Output voltage	
	24 V
Output voltage	24 V 24 V

Vin - approx. 0.2 V
60 s
60 ms
18.5 27 V
18.5 27 V
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
97.5 %
97.5 %
11 W
11 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	Ethernet/PROFINET
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
Operating data	
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, no condensation
Mechanics	
Type of electrical connection	screw-type terminals
● at input	24 V DC: 2 screw terminals for 0.2 6 mm²/24 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	0.45 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	345 056 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)