SIEMENS

Data sheet

6EP4137-3AB00-2AY0



SITOP UPS1600/DC/24VDC/40A/IE/PN

SITOP UPS1600 40 A Ethernet/ PROFINET uninterruptible power supply with Ethernet/ PROFINET interface / OPC UA server / web server input: 24 V DC output: 24 V DC/40 A *Ex approval no longer available*

Input	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	
formula for output voltage	Vin - approx. 0.2 V	
startup delay time typical	60 ms	
voltage increase time of the output voltage typical	60 ms	
output voltage in buffering mode at DC	18.5 27 V	
output current		
rated value	40 A	
 in normal operation 	0 120 A	
in buffering mode	0 120 A	
peak current	120 A	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min	
supplied active power typical	960 W	
Efficiency		
efficiency in percent		
 at rated output voltage for rated value of the output current typical 	98.3 %	
in case of operation on rechargeable battery typical	98.3 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	17 W	
 in case of operation on rechargeable battery typical 	17 W	

Yes 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 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 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
Yes
Ethernet/PROFINET
No
Class III
IP20
Yes
cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Yes
Yes
ABS, DNV GL
EN 55022 Class B
EN 61000-6-2
-25 +70 °C; with natural convection
-40 +85 °C
-40 +85 °C
Climate class 3K3, 5 95% no condensation
Climate class one, o oo // no condensation
screw-type terminals
24 V DC: 2 screw terminals for 0.5 16 mm²/20 6 AWG
24 V DC: 2 screw terminals for 0.5 16 mm²/20 6 AWG
24 V DC: 2 screw terminals for 0.5 16 mm²/20 6 AWG
14 screw terminals for 0.2 1.5 mm²/24 16 AWG
70 mm
139 mm
150 mm
50 mm
50 mm
0
0 mm
0 mm 0 mm

fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Battery module
MTBF at 40 °C	318 776 h
reference code acc. to IEC 81346-2	T
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

