SIEMENS

Data sheet

6EP4137-3AB00-2AY0



SITOP UPS1600 24V/40A ETHERN./PROFIN.
SITOP UPS1600 40A ETHERNET/ PROFINET UNINTERRUPTIBLE
POWER SUPPLY WITH ETHERNET/PROFINET INTER- FACE
INPUT: 24 V DC OUTPUT: 24 V DC/40 A

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

Mains buffering	
Type of energy storage	with batteries
Charging current	
• 1	0.1 A
• 2	5 A

Output	
Output voltage	
 in normal operation for DC Rated value 	24 V
 in buffering mode for DC Rated value 	24 V
Formula for output voltage	Vin - approx. 0.01 x I
ON-delay time typical	60 s
Voltage increase time of the output voltage typical	60 ms
Output current Rated value	40 A
Property of the output Short-circuit proof	Yes
Design of short-circuit protection	Limitation to 3 x I rated for 30 ms; through-conductivity for 1.5 x I rated for 5 sec/min
Active power supplied typical	960 W

Active power supplied typical	900 VV
Efficiency	
Efficiency in percent	

 at rated output current at rated output current typical 	98.8 %
• in case of accumulator operation typical	98.8 %
Active power loss	
 at rated output current at rated output current typical 	12 W
in case of accumulator operation typical	12 W

Protection and monitoring

Product function

• reverse polarity protection against energy storage unit polarity reversal

• reverse polarity protection against input voltage polarity reversal

Yes

Yes

Signaling

Display version

• for normal operation

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

• 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
UL approval	Yes
• as approval for USA	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Shipbuilding approval	available soon
Protection class IP	IP20

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for emitted interference
 for interference immunity
 EN 55022 Class B
 EN 61000-6-2

Operating data

Ambient temperature	
during operation	-25 +70 °C
during transport	-40 +85 °C
during storage	-40 +85 °C

Mechanics	
Type of electrical connection	screw-type terminals
• at input	24 V DC: 2 screw terminals for 0.5 16 mm²/20 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	125 mm
Depth of the enclosure	150 mm
Required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
● right	0 mm
Net weight	0.7 kg
Product property of the enclosure housing for side-	Yes
by-side mounting	
Mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Battery module
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)