SIEMENS

Data sheet

6EP4136-3AB00-0AY0



SITOP UPS1600 24 V DC/20 A SITOP UPS1600 20A UNINTERRUPTIBLE POWER SUPPLY INPUT: 24 V DC OUTPUT: 24 V DC/20 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	4 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	20 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	480 W

Efficiency	
Efficiency in percent	

 at rated output current at rated output current typical 	98.2 %
• in case of accumulator operation typical	98.2 %
Active power loss	
 at rated output current at rated output current typical 	8.6 W
• in case of accumulator operation typical	8.6 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

• in buffering mode

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

Interface	
Product component PC interface	No
Design of the interface	without

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
• C-Tick	Yes
Type of certification CB-certificate	Yes
Shipbuilding approval	available soon
Protection class IP	IP20

EMC Standard EN 55022 Class B • for emitted interference EN 61000-6-2 • for interference immunity Operating data Ambient temperature -25 ... +70 °C during operation -40 ... +85 °C • during transport -40 ... +85 °C • during storage Mechanics Type of electrical connection screw-type terminals 24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG • 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 14 screw terminals for 0.2 ... 1.5 mm²/24 ... 16 AWG • for control circuit and status message Width of the enclosure 50 mm Height of the enclosure 125 mm Depth of the enclosure 125 mm Required spacing • top 50 mm bottom 50 mm 0 mm left 0 mm • right Net weight 0.39 kg Product property of the enclosure housing for side-Yes by-side mounting Snaps onto DIN rail EN 60715 35x7.5/15 Mounting type Electrical accessories Battery module

Other information

°C (unless otherwise specified)

Specifications at rated input voltage and ambient temperature +25