SIEMENS

Data sheet

6EP4134-3AB00-0AY0

SITOP UPS1600 24 V DC/10 A SITOP UPS1600 10A UNINTERRUPTIBLE POWER SUPPLY INPUT: 24 V DC OUTPUT: 24 V DC/10 A



Input	
Supply voltage at 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	3 A

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. 0.01 x I
ON-delay time typical	60 s
Voltage increase time of the output voltage typical	60 ms
Output current Rated value	10 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	240 W
Efficiency	
Efficiency in percent	
 at rated output current at rated output current typical 	97.7 %
 in case of accumulator operation typical 	97.7 %
Active power loss	
 at rated output current at rated output current typical 	5.6 W
• in case of accumulator operation typical	5.6 W
Protection and monitoring	
Product function	
 reverse polarity protection against energy storage unit polarity reversal 	Yes
 reverse polarity protection against input voltage polarity reversal 	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	No
Design of the interface	without
Safety	
Galvanic isolation between entrance and outlet	No
Operating resource protection class	Class III
Certificate of suitability	Yes
 CE marking 	160

UL approval	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; cCSAus (CSA C22.2 No. 213-M1987, ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4
• C-Tick	Yes
Type of certification CB-certificate	Yes
Shipbuilding approval	GL
Protection class IP	IP20

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

Operating data	
Ambient temperature	
during operation	-25 +70 °C
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	125 mm
Depth of the enclosure	125 mm
Required spacing	
• top	50 mm
• bottom	50 mm
● left	0 mm
• right	0 mm
Net weight	0.38 kg
Product property 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	415 574 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)