SIEMENS

Data sheet

6EP4137-3AB00-0AY0

SITOP UPS1600 24 V DC/40 A SITOP UPS1600 40 A Uninterrupted Power supply input: 24 V DC output: 24 V DC/40 A



Input	
Supply voltage at DC Rated value	24 V
Voltage curve at input	DC
input voltage range	22 29 V DC
Adjustable response value voltage for buffer connection preset	22.5 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. 0.01 x l
ON-delay time typical	60 s
Voltage increase time of the output voltage typical	60 ms
Output voltage in buffering mode at DC	19 28.5 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

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Efficiency	
Efficiency in percent	
 at rated output current for rated value of the output current typical 	98.8 %
• in case of accumulator operation typical	98.8 %
Power loss [W]	
 at rated output current for rated value of the 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

sted (UL 508, CSA C22.2 No. 107.1), File E197259
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V GL
2 Class B
0-6-2
0 °C; with natural convection
5 °C
5 6
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Required spacing

• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Net weight	0.65 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	372 738 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)