SIEMENS

Data sheet 6EP1931-2FC42

SITOP DC UPS MODULE 40A WITH USB INTERF.
SITOP DC UPS MODULE 24 V/40 A UNINTERRUPTIBLE POWER SUPPLY WITH USB INTERFACE INPUT: 24 V DC/42.6 A 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	1 A
• 2	2 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. 0.5 V
ON-delay time typical	1 s
Voltage increase time of the output voltage typical	360 ms
Output current Rated value	40 A
Active power supplied typical	960 W

Efficiency	
Efficiency in percent	
• at rated output current at rated output current typical	97.2 %
• in case of accumulator operation typical	96.9 %
Active power loss	

• at rated output current at rated output current typical	28.6 W
• in case of accumulator operation typical	33.6 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	Yes
Design of the interface	USB
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
• relating to ATEX	-
• C-Tick	No
Shipbuilding approval	-
Protection class IP	IP20
EMC	
Standard	
• for emitted interference	EN 55022 Class B

• for interference immunity	EN 61000-6-2

Operating data	
Ambient temperature	
• during operation	-25 ... +60 °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 0.33 ... 10 mm²/22 ... 7 AWG
• at output	24 V DC: 2 screw terminals for 0.33 ... 10 mm²/22 ... 7 AWG
• for battery module	24 V DC: 2 screw terminals for 0.33 ... 10 mm²/22 ... 7 AWG
• for control circuit and status message	10 screw terminals for 0.5 ... 2.5 mm²/20 ... 13 AWG
Width of the enclosure	102 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	1.1 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
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)