## **SIEMENS**

## Data sheet

## 6EP1931-2DC42

SITOP DC UPS MODULE 6A WITH USB INTERF. SITOP DC UPS MODULE 24 V/6 A UNINTERRUPTIBLE POWER SUPPLY WITH USB INTERFACE INPUT: 24 V DC/6.85 A OUTPUT: 24 V DC/6 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	22 25.5 V; Adjustable in 0.5 V increments	
Input current at rated input voltage 24 V Rated value	6 A; + approx. 0.6 A with empty battery	
Mains buffering		
Type of energy storage	with batteries	
Design of the mains power cut bridging-connection	Dependent on connected battery and load current, see selection table battery module and mains buffering times as well as the relevant important information notes!	
Charging current		
• 1	0.2 A	
• 2	0.4 A	
adjustable charging current maximum Note	factory setting approx. 0.4 A	

Output

Input

Output voltage	
<ul> <li>in normal operation at DC Rated value</li> </ul>	24 V
<ul> <li>in buffering mode at DC Rated value</li> </ul>	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	60 ms
Output voltage in buffering mode at DC	19 28.5 V
Output current	
Rated value	6 A
<ul> <li>in normal operation</li> </ul>	0 6 A
<ul> <li>in buffering mode</li> </ul>	0 6 A
Peak current	6.3 A
Property of the output Short-circuit proof	Yes
Supplied active power typical	144 W
Efficiency	
Efficiency in percent	
<ul> <li>at rated output current at rated output current typical</li> </ul>	95 %
<ul> <li>in case of accumulator operation typical</li> </ul>	94.5 %
Power loss [W]	
<ul> <li>at rated output current at rated output current typical</li> </ul>	7 W
<ul> <li>in case of accumulator operation typical</li> </ul>	8 W
Protection and monitoring	
Product function	
<ul> <li>reverse polarity protection against energy storage unit polarity reversal</li> </ul>	Yes
<ul> <li>reverse polarity protection against input voltage polarity reversal</li> </ul>	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

Product component PC interface     Yes       Design of the interface     USB       Safety     Calvanic isolation between entrance and outlet     No       Operating resource protection class     Class III       Certificate of suitability     CE marking     Yes       • ca sapproval for USA     cUlus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259       • relating to ATEX     -       • C-Tick     No       Shipbuilding approval     CL, ABS       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; with natural convection       • during transport     -40 +85 °C       Environmental category acc. to IEC 60721     Climate class 3K3, no condensation       Mechanics     Screw-type terminals       Type of electrical connection     screw-type terminals for 1 4 mm²/17 11 AWG       • at input     24 V DC: 2 screw terminals for 1 4 mm²/17 11 AWG       • for control circuit and status message     10 screw terminals for 1 4 mm²/17 11 AWG       • for control circuit and status message     10 screw terminals for 1 4 mm²/17 11 AWG       • for battery modu	Interface	
Safety         Galvanic isolation between entrance and outlet       No         Operating resource protection class       Class III         Cetrificate of suitability       •         • CE marking       Ves         • as approval for USA       •         • relating to ATEX       -         • C-Tick       No         Shipbuilding approval       GL, ABS         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; with natural convection         • during storage       -0         etning transport       -40 +85 °C         • during storage       -0         Type of electrical connection       screw-type terminals         • at input       24 V DC: 2 screw terminals for 1 4 mm²/17 11 AWG         • for control circuit and status message       10 screw terminals for 1 4 mm²/17 11 AWG         • for control circuit and status message       10 screw terminals for 1 4 mm²/17 11 AWG         • for control circui	Product component PC interface	Yes
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Operating data         Ambient temperature         • during operation         • during transport         • during storage         • at output         • at output         • for battery module         • for control circuit and status message         • 10 screw terminals for 0.5 2.5 mm²/20 13 AWG         Width of the enclosure         • 125 mm         Depth of the enclo		
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Depth of the enclosure     125 mm       Required spacing     50 mm       • top     50 mm       • bottom     50 mm	Width of the enclosure	50 mm
Required spacing       • top       • bottom       50 mm       50 mm	Height of the enclosure	125 mm
<ul> <li>top</li> <li>bottom</li> <li>50 mm</li> <li>50 mm</li> </ul>	Depth of the enclosure	125 mm
• bottom 50 mm	Required spacing	
	• top	50 mm
• left 0 mm	• bottom	50 mm
	● left	0 mm

● right	0 mm
Net weight	0.45 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	904 159 h
Equipment marking acc. to DIN EN 81346-2	т
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)