## **SIEMENS**

## Data sheet

## 6EP4134-3AB00-1AY0

SITOP UPS1600 24 V DC/10 A, USB SITOP UPS1600 10 A USB Uninterrupted Power supply with USB interface input: 24 V DC output: DC 24 V/10 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	14 A; for max. charging current (3 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, 3 A
adjustable charging current maximum Note	Automatically depending on battery module
Output	
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

Vin - approx. 0.01 x I
60 s
60 ms
19 28.5 V
10 A
0 30 A
0 30 A
30 A
Yes
Limitation to 3 x I rated for 30 ms/min; through-conductivity for 1.5 x I rated for 5 sec/min
240 W
97.7 %
97.7 %
5.6 W
5.6 W
Yes
Yes
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

• 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     Class III       Calvanic isolation between entrance and outlet     No       Operating resource protection class     Class III       Certificate of suitability     Yes       • CE marking     Yes       • as approval for USA     cllus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259       • Irelating 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, ABS       Protection class IP     IP20       EMC     Standard       • for initerference immunity     EN 55022 Class B       • for initerference immunity     EN 61000-6-2       Operating data     Anbient temperature       • during operation     -25 +70 °C; with natural convection       • during storage     -40 +85 °C       • during storage     -40 +85 °C       Environmental cales oncetton     screw-type terminals       • at input     24 V DC: 2 screw terminals for 0.2 6 mm*/24 13 AWG       • for battery module     14 screw terminals for 0.2 6 mm*/24 13 AWG       • for battery module     14 screw terminals for 0.2 6 mm*/24 13 AWG <th colspan="3">Interface</th>	Interface		
Safety       Galvanic isolation between entrance and outlet     No       Operating resource protection class     Class III       Cettificate of suitability     (Lass III)       • CE marking     Yes       • as approval for USA     cULus-Listed (UL 508, CSA C22 2 No. 107.1), File E197259       • relating to ATEX     CLUS-Listed (UL 508, 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, ABS       Protection class IP     IP20       EMC     Standard       • for emitted interference     EN 55022 Class B       • for interference immunity     EN 61000-6-2       Operating data     -25 +70 °C; with natural convection       • during transport     -40 +85 °C       • during storage     -40 +85 °C       • during storage     -40 +85 °C       • during storage     -40 +85 °C       • during transport     -40 +85 °C       • during transport     -40 +85 °C       • during torage     -40 +85 °C <tr< td=""><td>Product component PC interface</td><td>Yes</td></tr<>	Product component PC interface	Yes	
Galvanic isolation between entrance and outlet     No       Operating resource protection class     Class III       Certificate of suitability     Yes       • CE marking     Ves       • relating to ATEX     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, ABS       Protection class IP     IP20       EMC     Standard       • for emitted interference     EN 55022 Class B       • for interference immunity     EN 150026 Class B       • for interference immunity     EN 55022 Class B       • for interference immunity     -25 +70 °C; with natural convection       • during operation     -25 +70 °C; with natural convection       • during storage     -40 +85 °C       • during storage     -40 +85 °C       • during storage     Screw-type terminals       • at output     24 V DC: 2 screw terminals for 0.2 6 mm³/24 13 AWG       • at output     24 V DC: 2 screw terminals for 0.2 6 mm³/24 13 AWG       • for control circuit and status message     14 screw terminals for 0.2 6 mm³/24 13 AWG       • for control circuit and status message <td< td=""><td>Design of the interface</td><td>USB</td></td<>	Design of the interface	USB	
Galvanic isolation between entrance and outlet     No       Operating resource protection class     Class III       Certificate of suitability     Yes       • CE marking     Ves       • relating to ATEX     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, ABS       Protection class IP     IP20       EMC     Standard       • for emitted interference     EN 55022 Class B       • for interference immunity     EN 150026 Class B       • for interference immunity     EN 55022 Class B       • for interference immunity     -25 +70 °C; with natural convection       • during operation     -25 +70 °C; with natural convection       • during storage     -40 +85 °C       • during storage     -40 +85 °C       • during storage     Screw-type terminals       • at output     24 V DC: 2 screw terminals for 0.2 6 mm³/24 13 AWG       • at output     24 V DC: 2 screw terminals for 0.2 6 mm³/24 13 AWG       • for control circuit and status message     14 screw terminals for 0.2 6 mm³/24 13 AWG       • for control circuit and status message <td< td=""><td>Safety</td><td></td></td<>	Safety		
Certificate of suitability       File         Certificate of suitability       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, ANS/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4         • C-Tick       Yes         Type of certification CB-certificate       Yes         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       -25 +70 °C; with natural convection         • during operation       -25 +70 °C; with natural convection         • during storage       -40 +85 °C         Environmental category acc. to IEC 60721       Climate class 3K3, no condensation         Mechanics       screw-type terminals         • at input       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 15 mm²/24 13 AWG         • for battery module       14 screw terminals for 0.2 15 mm²/24 13 AWG		No	
• CE marking       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, ABS         Protection class IP       IP20         EMC       Standard         • for emitted interference       EN 55022 Class B         • for interference immunity       EN 61000-6-2         Operating deta       -40+85 °C         Ambient temperature       -40+85 °C         • during operation       -25+70 °C; with natural convection         • during transport       -40+85 °C         • during transport       -40+85 °C         • during transport       -25+70 °C; with natural convection         • during transport       -40+85 °C         • during transport       -40+85 °C <tr< td=""><td>Operating resource protection class</td><td>Class III</td></tr<>	Operating resource protection class	Class III	
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ANSI/ISA-12.12.01-2013) Class I, Div. 2, Group ABCD, T4         • C-Tick         Type of certification CB-certificate         Shipbuilding approval         Protection class IP         IP20         EMC         Standard         • for emitted interference         EN 61000-6-2         Operating data         Ambient temperature         • during operation         -25 +70 °C; with natural convection         • during transport         -40 +85 °C         Environmental category acc. to IEC 60721         Climate class 3K3, no condensation         Methanics         Type of electrical connection         • at input         • at output         • for battery moule         • for control circuit and status message         14 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 6 mm²/24 13 AWG         • for battery moule         • for control circuit and status message         14 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	<ul> <li>as approval for USA</li> </ul>	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
Type of certification CB-certificate       Yes         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	<ul> <li>relating to ATEX</li> </ul>		
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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         • during transport         • during storage         • during storage         • during transport         • for control contection         screw-type terminals         • at output         • at output         • at output         • for control circuit and	Type of certification CB-certificate	Yes	
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Ambient temperature       -25 +70 °C; with natural convection         • during operation       -40 +85 °C         • during storage       -40 +85 °C         Environmental category acc. to IEC 60721       Climate class 3K3, no condensation         Mechanics       -24 V DC: 2 screw terminals         Type of electrical connection       screw-type terminals         • at input       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 6 mm²/24 13 AWG         Width of the enclosure       50 mm         Height of the enclosure       125 mm         Depth of the enclosure       125 mm	<ul> <li>for interference immunity</li> </ul>	EN 61000-6-2	
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• during storage       -40 +85 °C         Environmental category acc. to IEC 60721       Climate class 3K3, no condensation         Mechanics			
Environmental category acc. to IEC 60721       Climate class 3K3, no condensation         Mechanics       Screw-type terminals         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 6 mm²/24 16 AWG         Width of the enclosure       50 mm         Height of the enclosure       125 mm         Depth of the enclosure       125 mm			
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<ul> <li>for battery module</li> <li>for control circuit and status message</li> <li>for control circuit and status message</li> <li>4 screw terminals for 0.2 1.5 mm²/24 16 AWG</li> <li>Width of the enclosure</li> <li>Height of the enclosure</li> <li>Depth of the enclosure</li> <li>125 mm</li> <li>125 mm</li> <li>Required spacing</li> </ul>	● at input	24 V DC: 2 screw terminals for 0.2 6 mm <sup>2</sup> /24 13 AWG	
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Width of the enclosure     50 mm       Height of the enclosure     125 mm       Depth of the enclosure     125 mm       Required spacing     125 mm	<ul> <li>for battery module</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG	
Height of the enclosure     125 mm       Depth of the enclosure     125 mm       Required spacing     125 mm	<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm <sup>2</sup> /24 16 AWG	
Depth of the enclosure 125 mm Required spacing	Width of the enclosure	50 mm	
Required spacing	Height of the enclosure	125 mm	
	Depth of the enclosure	125 mm	
• top 50 mm	Required spacing		
	• top	50 mm	

• bottom	50 mm
• left	0 mm
● right	0 mm
Net weight	0.4 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	364 153 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)