## 6EP4134-3AB00-1AY0

**Data sheet** 



## SITOP UPS1600/DC/24VDC/10A/USB

SITOP UPS1600 10 A USB uninterruptible power supply with USB interface input: 24 V DC output: 24 V DC/10 A

input			
supply voltage at DC rated value	24 V		
input voltage at DC	21 29 V		
adjustable response value voltage for buffer connection preset	21.5 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)		
memory			
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		
output			
output voltage			
<ul> <li>in normal operation at DC rated value</li> </ul>	24 V		
in buffering mode at DC rated value	24 V		
formula for output voltage	Vin - approx. 0.2 V		
startup delay time typical	60 ms		
voltage increase time of the output voltage typical	60 ms		
output voltage in buffering mode at DC	18.5 27 V		
output current			
• rated value	10 A		
<ul> <li>in normal operation</li> </ul>	0 30 A		
• in buffering mode	0 30 A		
peak current	30 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		
charging current	0.1 A, 3 A		
efficiency			
efficiency in percent			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	97.5 %		
• in case of operation on rechargeable battery typical	97.5 %		
power loss [W]			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	6 W		
in case of operation on rechargeable battery typical	6 W		
supplied active power typical	ve power typical 240 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	
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; 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	
interfaces		
product component PC interface	Yes	
product function communication function	Yes	
design of the interface	USB	
safety		
galvanic isolation between input and output	No	
·	Class III	
operating resource protection class	IP20	
protection class IP	IP20	
standard	FN FF000 OL - B	
• for emitted interference	EN 55022 Class B	
for interference immunity	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability		
CE marking	Yes	
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	
CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)	
UKCA marking	Yes	
EAC approval	Yes	
type of certification CB-certificate	Yes	
MTBF at 40 °C	364 153 h	
standards, specifications, approvals hazardous environments		
certificate of suitability		
• ATEX	No	
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No	
standards, specifications, approvals marine classification		
shipbuilding approval	Yes	
Marine classification association		
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes	
<ul> <li>Det Norske Veritas (DNV)</li> </ul>	Yes	
standards, specifications, approvals Environmental Product Dec	claration	
Environmental Product Declaration	Yes	
global warming potential [CO2 eq]		
• total	206.6 kg	
during manufacturing	18.6 kg	
during operation	187.8 kg	
after end of life	0.3 kg	
ambient conditions	5.5 Ng	
ambient temperature	25 ±70: with natural convection	
<ul><li>during operation</li><li>during transport</li></ul>	-25 +70; with natural convection -40 +85	
	-40 +85	
during storage      application of the storage	Climate class 3K3, 5 95% no condensation	
environmental category according to IEC 60721 connection method	Climate class 3K3, 5 95% no condensation	
type of electrical connection	screw terminal	
• 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	
<ul> <li>for rechargeable battery module</li> </ul>	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG	
<ul> <li>for control circuit and status message</li> </ul>	14 screw terminals for 0.2 1.5 mm²/24 16 AWG	

mechanical data	E0 v 400 v 405 mm		
width × height × depth of the enclosure	50 × 139 × 125 mm		
installation width × mounting height	50 mm × 239 mm		
required spacing			
• top	50 mm		
• bottom	50 mm		
• left	0 mm		
● right	0 mm		
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15		
DIN-rail mounting	Yes		
<ul> <li>S7 rail mounting</li> </ul>	No		
wall mounting	No		
housing can be lined up	Yes		
net weight	0.4 kg		
accessories			
electrical accessories	Battery module		
further information internet links			
internet link			
to website: Industry Mall	https://mall.industry.siemens.com		
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud		
• to web page: power supplies	https://siemens.com/sitop		
• to website: CAx-Download-Manager	https://siemens.com/cax		
to website: Industry Online Support	https://support.industry.siemens.com		
tional information			
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)		
security information			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)		

Classifications

	Version	Classification
eClass	14	27-04-07-05
eClass	12	27-04-07-05
eClass	9.1	27-04-07-05
eClass	9	27-04-07-05
eClass	8	27-04-06-90
eClass	7.1	27-04-06-90
eClass	6	27-04-06-90
ETIM	9	EC000382
ETIM	8	EC000382
ETIM	7	EC000382
IDEA	4	4149
UNSPSC	15	39-12-10-11

## Approvals Certificates

**General Product Approval** 





Manufacturer Declaration Declaration of Conformity





Marine / Shipping

Environment







last modified:

11/25/2024