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 *Ex approval no longer available*

input			
supply voltage at DC rated value	24 V		
input voltage	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			
 in normal operation at DC rated value 	24 V		
in buffering mode at DC rated value	24 V		
formula for output voltage	Vin - approx. 0.2 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		
in normal operation	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; Automatically depending on battery module		
power loss			
efficiency in percent			
 at rated output voltage for rated value of the output current typical 	97.5 %		
in case of operation on rechargeable battery typical	97.5 %		
power loss [W]			
 at rated output voltage for rated value of the output current typical 	6 W		
in case of operation on rechargeable battery typical	6 W		
supplied active power typical	240 W		
protection and monitoring			
product function			
 reverse polarity protection against energy storage unit polarity reversal 	Yes		

 reverse polarity protection against input voltage polarity reversal 			
display version			
setting "OK" ("OK" means: Voltage of than cut-in threshold set at the DC Uf red (alarm), floating changeover cont replacement required: LED red (alarn changeover contact "Alarm/Bat" switc > 85%: LED green (Bat > 85%), floati	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		
setting "Bat"; Prewarning battery volta changeover contact "Alarm/Bat" to se	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			
operating resource protection class Class III protection class IP IP20			
standard			
• 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	2.2 No. 107.1), File E197259		
CSA approval 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			
• cCSAus, Class 1, Division 2			
standards, specifications, approvals marine classification			
shipbuilding approval Yes			
ompounding approval			
Marine classification association			
Marine classification association			
Marine classification association			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Yes			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) **Standards, specifications, approvals Environmental Product Declaration **Environmental Product Declaration **Global Warming Potential [CO2 eq]**			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) **Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] • total **206.6 kg			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) **Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration **Environmental Product Declaration Global Warming Potential [CO2 eq] • total • during manufacturing 18.6 kg			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) **Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration **Global Warming Potential [CO2 eq]* • total • during manufacturing • during operation Marine classification association Yes 206.6 kg • during manufacturing • 18.6 kg • during operation			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) **Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration **Environmental Product Declaration **Environmen			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life 0.3 kg ambient conditions			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life ambient conditions ambient temperature			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) **Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration **Environmental Product Declaration **Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life **analysis* **ambient conditions **ambient temperature • during operation -25 +70 °C; with natural convection			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) **Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration **Environmental Product Declaration **Environmental Product Declaration **Environmental Product Declaration **Yes Global Warming Potential [CO2 eq] • total • during manufacturing • during manufacturing • after end of life **O.3 kg **ambient conditions **ambient temperature • during operation • during transport **C; with natural convection of the conditions **automatical decisions** **Automatical decision of the conditions** **automatical decision of the conditions** **automatical decision of the conditions** **automatical decision of the condition of the cond	1		
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life • during operation • during transport • during storage • during storage -40 +85 °C			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life ambient conditions ambient temperature • during operation • during transport • during storage environmental category according to IEC 60721 Aveause IEC (ABS) Yes Yes 206.6 kg 187.8 kg 0.3 kg 206.6 kg 187.8 kg -25 +70 °C; with natural convection -40 +85 °C Climate class 3K3, 5 95% no conditions			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life • during operation • during transport • during storage • during storage			
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] total during manufacturing during operation after end of life ambient conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721 Yes 206.6 kg 187.8 kg 0.3 kg 206.6 kg 187.8 kg -25 +70 °C; with natural convection -40 +85 °C Climate class 3K3, 5 95% no conditions			
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Yes Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life • during operation • during transport • during storage environmental category according to IEC 60721 Mechanical data	lensation		
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life • during operation • during transport • during storage environmental category according to IEC 60721 mechanical data type of electrical connection	6 mm²/24 13 AWG		
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Global Warming Potential [CO2 eq] • total • during manufacturing • during operation • after end of life • during operation • during operation • during operation • during operation • during transport • during storage environmental category according to IEC 60721 type of electrical connection • at input • American Bureau (ABS) Yes 206.6 kg 206.6 kg 187.8 kg 0.3 kg ambient conditions 187.8 kg 0.3 kg ambient conditions -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condimechanical data type of electrical connection • at input	6 mm²/24 13 AWG 6 mm²/24 13 AWG		
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) Det Norske Veritas (DNV) Standards, specifications, approvals Environmental Product Declaration Environmental Product Declaration Global Warming Potential [CO2 eq] total during manufacturing after end of life ambient conditions ambient temperature during operation during transport during storage environmental category according to IEC 60721 mechanical data type of electrical connection at input at output American Bureau of Shipping Europe Ltd. (ABS) Yes Yes 206.6 kg 206.6 kg 187.8 kg 0.3 kg ambient conditions ambient conditions conditions arbient conditions Climate class 3K3, 5 95% no conditions screw-type terminals 24 V DC: 2 screw terminals for 0.2 at output	6 mm²/24 13 AWG 6 mm²/24 13 AWG 6 mm²/24 13 AWG		

width × height × depth of the enclosure	50 × 139 × 125 mm	F0 · · 400 · · 40F · · · ·				
installation width × mounting height	50 × 239 mm					
required spacing	30 × 233 Hilli					
• top	50 mm	50 mm				
• bottom	50 mm					
• left	0 mm					
• right	0 mm					
fastening method		Snaps onto DIN rail EN 60715 35x7.5/15				
standard rail mounting	Yes					
S7 rail mounting	No					
wall mounting	No					
housing can be lined up	Yes	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.co	<u>m</u>				
• to web page: selection aid TIA Selection Tool	https://siemens.com/tst	https://siemens.com/tst				
 to website: Industrial communication 	http://www.siemens.com/simati	http://www.siemens.com/simatic-net				
to website: CAx-Download-Manager	http://www.siemens.com/cax	http://www.siemens.com/cax				
to website: Industry Online Support	https://support.industry.siemens	https://support.industry.siemens.com				
additional information						
other information	Specifications at rated input vol otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)				
security information						
	the-art industrial security conce one element of such a concept. unauthorized access to their pla systems, machines and componetwork or the internet if and to only when appropriate security segmentation) are in place. For measures that may be implement the horizontal security segmentation are in place. For measures that may be implement the horizontal security segmentation are in place. For measures that may be implement the segmentation are in place. For measures that may be implement the segmentation and the security series and that the latest product upda and that the latest product version longer supported, and failure customer's exposure to cyber the subscribe to the Siemens Industrial series.	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 security 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 security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. 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 Security RSS Feed under https://www.siemens.com/cert. (V4.6)				
Classifications		()				
		Version	Classification			
	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





General Product Approval

For use in hazardous locations

Marine / Shipping

Environment



CCC-Ex





EPD Typ II/III (with life cylce assessment)

last modified:

12/20/2023