SIEMENS

Data sheet

6EP4134-3AB00-2AY0



SITOP UPS1600/DC/24VDC/10A/IE/PN

SITOP UPS1600 10 A Ethernet/ PROFINET uninterruptible power supply with Ethernet/ PROFINET interface / OPC UA server / web server input: 24 V DC output: 24 V DC/10 A

input			
supply voltage at DC rated value	24 ∨		
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			
 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		
efficiency			
efficiency in percent			
 at rated output voltage for rated value of the output current typical 	97.3 %		
 in case of operation on rechargeable battery typical 	97.3 %		
power loss [W]			
 at rated output voltage for rated value of the output current typical 	7 W		
 in case of operation on rechargeable battery typical 	7 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 	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, floating changeover contact "Alarm/Bat" switching with approx. 0.25 Hz; Energy storage > 85%: LED green (Bat > 85%), floating NC 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

	green (Bat > 85%), floating NO contact "Bat > 85" closed		
interfaces			
product component PC interface	Yes		
product function communication function	Yes		
design of the interface	Ethernet/PROFINET		
number of interfaces according to PROFINET	2		
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 No. 107.1), File E197259		
CSA approval	Yes		
• EAC approval	Yes		
type of certification CB-certificate	Yes		
MTBF at 40 °C	349 874 h		
standards, specifications, approvals hazardous environments			
certificate of suitability			
• ATEX	No		
 cCSAus, Class 1, Division 2 	No		
standards, specifications, approvals marine classification			
shipbuilding approval	Yes		
Marine classification association			
American Bureau of Shipping Europe Ltd. (ABS)	Yes		
Det Norske Veritas (DNV)	Yes		
standards, specifications, approvals Environmental Product De			
Environmental Product Declaration	Yes		
Global Warming Potential [CO2 eq]			
• total	239.8 kg		
during manufacturing	20.4 kg		
during manufacturing during operation	219.1 kg		
after end of life	0.32 kg		
ambient conditions	U.JZ ky		
ambient temperature	25 170 °C; with natural convection		
during operation	-25 +70 °C; with natural convection		
during transport	-40 +85 °C		
during storage	-40 +85 °C		
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation		
connection method			
type of electrical connection	screw terminal		
• at input	24 V DC: 2 screw terminals for 0.2 6 mm ² /24 13 AWG		
• at output	24 V DC: 2 screw terminals for 0.2 6 mm ² /24 13 AWG		
for rechargeable battery module	24 V DC: 2 screw terminals for 0.2 6 mm ² /24 13 AWG		
 for control circuit and status message 	14 screw terminals for 0.2 1.5 mm ² /24 16 AWG		

mechanical data				
width × height × depth of the enclosure	50 × 139 × 125 mm			
installation width × mounting height	50 × 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		
standard rail mounting	Yes			
• S7 rail mounting	No			
wall mounting	No			
housing can be lined up	Yes			
net weight accessories	0.44 kg			
electrical accessories	Battery module			
further information internet links	Ballery module			
internet link				
to website: Industry Mall	https://mall.industry.siemens.co	ım		
 to website: industry hum to web page: selection aid TIA Selection Tool 	https://siemens.com/tst			
to website: Industrial communication	http://www.siemens.com/simati	c-net		
• to website: CAx-Download-Manager	http://www.siemens.com/cax			
to website: Industry Online Support	https://support.industry.siemens.com			
additional information				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless			
	otherwise specified)			
security information security information	Siemens provides products and			
	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/cet. (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

СВ	СВ	Manufacturer Declara- tion	Declaration of Con- formity	UK CA	<u>PROFINET</u>
General Product Ap- proval	Marine / Shipping		other	Environment	
	ABS		<u>Miscellaneous</u>	EPD	

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