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 *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 	97.3 %
 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 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

	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	20.0 kg			
during manaacturing during operation	219.1 kg			
after end of life	0.32 kg			
ambient conditions	0.02 kg			
ambient temperature				
during operation	-25 +70 °C; with natural convection			
during operation ort	-40 +85 °C			
during transport orge	-40 +85 °C			
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation			
mechanical data				
	serow two terminals			
type of electrical connection	screw-type terminals			
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			

width × height × depth of the enclosure	50 × 139 × 125 mm					
installation width × mounting height	50 × 239 mm					
required spacing		56 × 266 mm				
• top	50 mm	50 mm				
• bottom	50 mm					
• left	0 mm					
• right	0 mm					
fastening method	Snaps onto DIN rail EN 60715 3	35x7.5/15				
 standard rail mounting 	Yes					
S7 rail mounting	No					
wall mounting	No					
housing can be lined up	Yes					
net weight	0.44 kg					
accessories						
electrical accessories	Battery module					
urther information internet links						
internet link						
to website: Industry Mall	https://mall.industry.siemens.co	m				
 to web page: selection aid TIA Selection Tool 	https://siemens.com/tst					
 to web page scientification to website: Industrial communication 	http://www.siemens.com/simatio	n-net				
• to website: CAx-Download-Manager	http://www.siemens.com/cax					
to website: Industry Online Support	https://support.industry.siemens					
additional information	https://support.industry.siemene	<u></u>				
other information	Specifications at rated input vol	age and ambient temper	rature +25 °C (unless			
	otherwise specified)	age and ambient temper				
security information						
security information	Siemens provides products and	Siemens provides products and solutions with industrial security functions that				
	systems, machines and compor network or the internet if and to only when appropriate security segmentation) are in place. For measures that may be impleme https://www.siemens.com/indus undergo continuous developme recommends that product upda and that the latest product versi no longer supported, and failure customer's exposure to cyber th subscribe to the Siemens Indus	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 enterpri- network or the internet if and to the extent such a connection is necessary an 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 strong 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 update subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)				
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CB	<u>Manufacturer Declara-</u> <u>tion</u>	<u>Declaration of Con-</u> <u>formity</u>	UK CA	<u>PROFINET</u>	
For use in hazard- ous locations	Marine / Shipping		other	Environment	
CCC-Ex	ABS		<u>Miscellaneous</u>	EPD Typ II/III (with life cylce assessment)	

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