SIEMENS

Data sheet

6EP4134-3AB00-0AY0



SITOP UPS1600/DC/24VDC/10A

SITOP UPS1600 10 A uninterruptible power supply 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		
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		
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		
efficiency			
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 	Yes
reversal	
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 out in thesehold act at the DC LIDS medulo), look of buffer stendby, LED
	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
interfaces	
product component PC interface	No
product function communication function	Yes
design of the interface	without
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; 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	415 574 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 Dec	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	205.7 kg
during manufacturing	17.6 kg
during manufacturing during operation	187.8 kg
after end of life	0.28 kg
anter end of life ambient conditions	0.20 Ng
ambient temperature	
during operation	-25 +70; with natural convection
during transport	-40 +85
during storage	-40 +85
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 mm²/24 13 AWG
● at output	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
 for rechargeable 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 1.5 mm ² /24 16 AWG

mechanical data						
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	Snaps onto DIN rail EN 60715 35x7.5/15				
DIN-rail mounting	Yes					
 S7 rail mounting 	No					
wall mounting	No					
housing can be lined up	Yes					
net weight	0.38 kg					
accessories						
electrical accessories	Battery module					
further information internet links						
internet link						
 to website: Industry Mall 	https://mall.industry.siemens.co	om				
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstclo	<u>bud</u>				
• 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.siemen					
additional information						
other information	Specifications at rated input vo otherwise specified)	Itage and ambient temper	ature +25 °C (unless			
security information	·····					
security information	that support the secure operati In order to protect plants, syste threats, it is necessary to imple state-of-the-art industrial cyber solutions constitute one elemen for preventing unauthorized ac networks. Such systems, mach to an enterprise network or the necessary and only when appr network segmentation) are in p cybersecurity measures that m www.siemens.com/cybersecuri undergo continuous developmed recommends that product upda and that the latest product vers no longer supported, and failur customer's exposure to cyber t subscribe to the Siemens Indus	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 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				
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	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			

Approva

СВ	СВ	(SP)	Manufacturer Declara- tion	<u>Declaration of Con-</u> <u>formity</u>	UK CA
General Product Appro	oval		Marine / Shipping		Environment
CE EG-Konf.		RCM	ABS		EPD

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