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 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	
 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 	97.3 %
 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; floating changeover (Bat > 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%), noaling 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; 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	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 manageduring output during operation	219.1 kg
after end of life	0.32 kg
ambient conditions	0.02 kg
ambient temperature	
during operation	-25 +70; with natural convection
	-40 +85
during transport	-40 +85
• during storage 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

nechanical data	E0 x 120 x 125 mm				
width × height × depth of the enclosure	50 × 139 × 125 mm				
installation width × mounting height	50 mm × 239 mm	50 mm × 239 mm			
required spacing					
• top		50 mm			
bottom	50 mm				
• left	0 mm				
right	0 mm	0 mm			
fastening method		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	0.44 kg				
accessories					
electrical accessories	Battery module				
urther information internet links					
internet link					
• to website: Industry Mall	https://mall.industry.siemens.co	https://mall.industry.siemens.com			
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstclo	bud			
 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	s.com			
additional information					
other information	Specifications at rated input vo otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)			
security information					
security information	Siemens provides products and that support the secure operation In order to protect plants, systee threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc 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/cybersecurit undergo continuous development recommends that product update and that the latest product update no longer supported, and failure customer's exposure to cyber to subscribe to the Siemens Indust	on of plants, systems, mac ms, machines and networ ment – and continuously r security concept. Siemens to f such a concept. Cust cess to their plants, syster ines and components sho internet if and to the exter opriate security measures lace. For additional inform ay be implemented, pleas ty-industry. Siemens' proc ent to make them more se tes are applied as soon a ions are used. Use of proc e to apply the latest updat hreats. To stay informed a strial Cybersecurity RSS F	chines and networks. ks against cyber maintain – a holistic, ' products and omers are responsibl ms, machines and nuld only be connected t such a connection i (e.g. firewalls and/or hation on industrial e visit ducts and solutions cure. Siemens strong s they are available duct versions that are es may increase about product updates		
Classifications	https://www.siemens.com/cert.	(V4.7)			
		Version	Classification		
	eClass	14	27-04-07-05		

		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			

CB ca	СВ	(SP)	<u>Manufacturer Declara-</u> tion	<u>Declaration of Con-</u> formity	UK CA
General Product App	proval		Marine / Shipping		other
CE EG-Konf.		RCM	ABS		<u>Miscellaneous</u>
Environment	Industrial Communica	ation			
EPD	PROFINET				
last modified:		11/	25/2024 🖸		