SIEMENS

Data sheet



SITOP UPS1600/DC/24VDC/20A/IE/PN

SITOP UPS1600 20 A Ethernet/ PROFINET uninterruptible power supply with Ethernet / PROFINET interface / OPC UA server / web server input: 24 V DC output: 24 V DC/20 A

Technical Product Detail Page	https://i.siemens.com/1P6EP4136-3AB00-2AY0	
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	25 A; for max. charging current (4 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	20 A	
• in normal operation	0 60 A	
• in buffering mode	0 60 A	
peak current	60 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, 4 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 	11 W	
• in case of operation on rechargeable battery typical	11 W	
supplied active power typical	480 W	
protection and monitoring		

Interfaces pointly protection against energy storage unit polarity reversal Yes		
polarly reversal - everse polarly protection against input veltage polarly meneral - for normal operation - for normal oper	product function	
everses poartily protection against input votage polarity reversal display version		Yes
reversal display version • for normal operation • in buffering mode • for normal operation • for operation operation • for operation operation • for operating resource protection diss • for one mitted interference • for interference immunity • for one mitted interference • for interference immunity • OE marking • UL approval • UL approval • UL approval • (Ves. ATEX ATEX ATEX No **STEAT *		Yes
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changeover contact "Alammatian struction as vinching with approx 0.25 Hz, Energy storings" > 85%; ED green (EB1 + 85%), Boating NOCO contact "Bat + 85%" obased; "Permissible contact current capacity IDC 60 VIT A or AC 30 VIT A Buffered mode; ED yelve (Bat), Totaling voltage < 20.4 VIDC.; LED red (palemy, floating or hardware) with green (Bat - 85%), floating NOC contact "Bat + 85" obased with the product component PC interface product component PC interface product component PC interface product component PC interface product motion communication function Yes EtherneUPROFINET product component PC interface product motion communication function Yes EtherneUPROFINET product component PC interface product motion communication function Yes EtherneUPROFINET product motion communication function Yes EtherneUPROFINET product motion of the product motion		
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Buffered mode. EED yellow (Bat), floating changeover contact "OK/Bat" is setting "Rat", Prevaring pattery orings a 20-4 VOIC. EED red (Islam), floating changeover contact "AlarmSat" to setting "Alarm". Energy storage > 85%; LED gree (Bat > 85%), floating NO contact "Bat > 85" closed product function communication function. yes product function communication function. yes product function communication function. yes graving of the interface according to PROFINET. 2 safety gravanic solition between input and output. operating resource protection class. Class III protection class IP iP20 standards specifications, approvals certificate of suitability. **CE marking** **LEAC approval** **LEAC Amarking** **EAC approval** **LEAC Amarking** **EAC approval** **LEAC Amarking** **EAC approval** **Pes** **LEAC approval**		
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environmental category according to IEC 60721 Connection method type of electrical connection Screw terminal	-	
type of electrical connection screw terminal		Climate class 3K3, 5 95% no condensation
type of electrical connection screw terminal		
• at input 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG		screw terminal
	• at input	24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG

at output
 for rechargeable battery module
 24 V DC: 2 screw terminals for 0.2 ... 6 mm²/24 ... 13 AWG
 4 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 mm²/24 ... 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 35x7.5/15
DIN-rail mounting	Yes
S7 rail mounting	No
wall mounting	No
housing can be lined up	Yes
net weight	0.45 kg
accessories	
electrical accessories	Battery module

further information internet links

internet link

to website: Industry Mall

• to web page: selection aid TIA Selection Tool

• to web page: power supplies

• to website: CAx-Download-Manager

• to website: Industry Online Support

https://mall.industry.siemens.com

https://www.siemens.com/tstcloud

https://siemens.com/sitop

https://siemens.com/cax

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 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 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/cert. (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	10	EC000382
ETIM	9	EC000382
ETIM	8	EC000382

ETIM	7	EC000382
IDEA	4	4149
UNSPSC	15	39-12-10-11

Approvals Certificates

General Product Approval









Manufacturer Declara-tion

Declaration of Conformity

General Product Approval

Maritime application

other

China RoHS









Miscellaneous

Environment

Industrial Communication



PROFINET

last modified:

12/8/2025

