SIEMENS

Data sheet

6EP4136-3AC00-2AY0



SITOP UPS1600/DC/DC24V/20A/IE/PN/EX

SITOP UPS1600 EX 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

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	25 A; for max. charging current (4 A)
Mains buffering	
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
charging current	0.1 A, 4 A
adjustable charging current maximum note	Automatically depending on battery module
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
supplied active power typical	480 W
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
Protection and monitoring	
product function	

priority reveral Yes Spaning Security function against input voltage pointing digital y consist Normal operation digital y consist Interface digital y consist Normal operation - for normal operation Interface - or normal operation Normal operation - in buffering mode Interface - in buffering mode Secure 2014 (Secure 201	 reverse polarity protection against energy storage unit 	Yes
reversal Provide Idealing Second and the second	polarity reversal	
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product component PC interface Yes design of the interface Etherms/PROFINET galvarini isolation between input and output No operating resource protection class Class III protection class IP IP20 Approvals Class III cettricate of subability Yes • CE marking Yes • CCSAs, proval No • CSAs, proval No • CSAs approval availability • LicEX Yes cettricate of subability Yes • Contract Gauss Burgeroval availabile soon Morine classification association No • David GL No • Contentified interference EN E5022 Class B • for merited interference EN E5022 Class B • for merited interference - 400 - 465 °C • during toporetid -40 455 °C	• 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
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depth of the enclosure 125 mm required spacing 50 mm • top 50 mm • bottom 50 mm • left 0 mm	width of the enclosure	50 mm
required spacing • top 50 mm • bottom • left 0 mm	height of the enclosure	139 mm
• top 50 mm • bottom 50 mm • left 0 mm	depth of the enclosure	125 mm
bottom 50 mm left 0 mm	required spacing	
• left 0 mm	• top	50 mm
	bottom	50 mm
• right 0 mm	● left	0 mm
	● right	0 mm

net weight	0.45 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Battery module
MTBF at 40 °C	345 056 h
reference code according to IEC 81346-2	RB
other information	Specifications at rated input voltage and ambient temperature +25 $^\circ\text{C}$ (unless otherwise specified)