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	Input	
supply voltage at DC rated value	24 V	
voltage curve at input	DC	
input voltage range	21 29 V DC	
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)	
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, 3 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 	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	
supplied active power typical	240 W	
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	

Protection and monitoring	
product function	
reverse polarity protection against energy storage unit polarity reversal	Yes
reverse polarity protection against input voltage polarity reversal	Yes
Signaling	
display version	
for normal operation	Normal operation: LED green (OK), floating changeover contact
• in buffering mode	"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 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
Interface	
product component PC interface	Yes
design of the interface	Ethernet/PROFINET
Safety	Edicined Not INC.
•	No
galvanic isolation between input and output operating resource protection class	Class III
protection class IP	IP20
	IF20
Approvals	
certificate of suitability	Voc
CE marking	Yes
UL approval	Yes
as approval for USA	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
CSA approval CSA up Class 1. Division 3.	Yes
• cCSAus, Class 1, Division 2	No
ATEX type of certification CB-certificate	No Vac
,, p = 0. 00 minutes 0 = 00 minutes	Yes
certificate of suitability	Voc
EAC approval	Yes
• C-Tick	Yes
shipbuilding approval	Yes ARG RANGO
shipbuilding approval	ABS, DNV GL
Marine classification association	Voc
 American Bureau of Shipping Europe Ltd. (ABS) DNV GL 	Yes Yes
	res
EMC	
standard	EN 55000 Ol D
for emitted interference for interference immunity	EN 55022 Class B
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
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 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 of the enclosure	50 mm
height of the enclosure	139 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.44 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	349 874 h
reference code according to IEC 81346-2	Т
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

