SIEMENS

Data sheet

6EP4134-3AB00-0AY0



SITOP UPS1600/DC/24VDC/10A

SITOP UPS1600 10 A Uninterrupted Power supply input: 24 V DC output: DC 24 V/10 A

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
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
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 s
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 	97.5 %

• 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
Protection and monitoring	
product function	
reverse polarity protection against energy storage	Yes
unit polarity reversal • reverse polarity protection against input voltage	Yes
polarity reversal	,
Signaling	
display version	
 for normal operation in buffering mode 	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; 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	No
design of the interface	without
Safety	
galvanic isolation between input and output	No
operating resource protection class	Class III
certificate of suitability	Voo
CE markingas approval for USA	Yes cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• relating to ATEX	IECEX EX NA NC IIC T4 Gc; ATEX (EX) II 3G EX NA NC IIC T4 Gc; cULus Class I, Div. 2 (ANSI/ISA-12.12.01-2015, CSA C22.2 No. 213-15) Group ABCD, T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
C-Tick	
▼ U-110N	Yes
type of certification CB-certificate	Yes
type of certification CB-certificate shipbuilding approval	Yes ABS, DNV GL
type of certification CB-certificate shipbuilding approval protection class IP	Yes
type of certification CB-certificate shipbuilding approval protection class IP EMC	Yes ABS, DNV GL
type of certification CB-certificate shipbuilding approval protection class IP EMC standard	Yes ABS, DNV GL IP20
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference	Yes ABS, DNV GL IP20 EN 55022 Class B
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity	Yes ABS, DNV GL IP20
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions	Yes ABS, DNV GL IP20 EN 55022 Class B
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation • during transport	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation • during transport • during storage	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation • during transport	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation • during transport • during storage environmental category acc. to IEC 60721 Mechanics	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation • during transport • during storage environmental category acc. to IEC 60721	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation • during transport • during storage environmental category acc. to IEC 60721 Mechanics type of electrical connection	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
type of certification CB-certificate shipbuilding approval protection class IP EMC standard	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
type of certification CB-certificate shipbuilding approval protection class IP EMC standard	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG
type of certification CB-certificate shipbuilding approval protection class IP EMC standard • for emitted interference • for interference immunity environmental conditions ambient temperature • during operation • during transport • during storage environmental category acc. to IEC 60721 Mechanics type of electrical connection • at input • at output • for rechargeable battery module	Yes ABS, DNV GL IP20 EN 55022 Class B EN 61000-6-2 -25 +70 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG 24 V DC: 2 screw terminals for 0.2 6 mm²/24 13 AWG

depth of the enclosure	125 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	0.38 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	415 574 h
reference code acc. to IEC 81346-2	T
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

