



SITOP BAT1600/Bat.module/24V/3.2AH/EX

SITOP BAT1600 EX 24 V DC 3.2 Ah Pb battery module with maintenance- free closed lead-acid battery for SITOP UPS1600

electrical data

end-of-charge voltage at DC

• at -10 °C recommended	28 V
• at 0 °C recommended	28 V
• at 10 °C recommended	27.8 V
• at 20 °C recommended	27.3 V
• at 30 °C recommended	26.8 V
• at 40 °C recommended	26.6 V
• at 50 °C recommended	26.3 V

output

battery capacity	3.2 A·h
output current rated value	20 A
output current in buffering mode maximum	20 A
peak current	60 A; for 30 ms
charging current maximum	0.8 A
output voltage at DC rated value	24 V

interfaces

communication function	Yes
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protection and monitoring

design of short-circuit protection	25A / 32V Maxi flat fuse
design of the overload protection	Valve control
display version for normal operation	Three-color: green = Buffer ready; yellow = Buffer endangered; red = Buffer not possible

safety

operating resource protection class	Class III
protection class IP	IP20

standards, specifications, approvals

certificate of suitability	Yes
• CE marking	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289
• UL approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
• CSA approval	Yes
• UKCA marking	Yes
type of certification CB-certificate	Yes

standards, specifications, approvals hazardous environments

certificate of suitability	Yes; IECEx Ex ec IIC T4 Gc
• IECEx	Yes; ATEX (EX) II 3G ex ec IIC T4 Gc
• ATEX	Yes
• ULhazloc approval	Yes
• cCSAus, Class 1, Division 2	Yes
• CCC for hazardous zone according to GB standard	Yes

standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	Yes
• Det Norske Veritas (DNV)	in preparation
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO ₂ eq]	
• total	16 kg
• during manufacturing	9.4 kg
• during operation	4.9 kg
• after end of life	0.59 kg
ambient conditions	
ambient condition	For storage, mounting and operation of lead-acid batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed. You must ensure that the battery site is sufficiently ventilated. Possible sources of ignition must be at least 50 cm away.
ambient temperature	
• during operation	-15 ... +50
• during transport	-20 ... +50
• during storage	-20 ... +40
relative temporary capacity loss at 20 °C in a month typical	3 %
service life	
service life of energy storage	
• typical	capacity falls to 80 % of original capacity (according to EUROBAT)
• at 20 °C typical	4 a
• at 30 °C typical	2 a
• at 40 °C typical	1 a
• at 50 °C typical	0.5 a
note	Along with the storage and operating temperature, other factors such as the duration of the storage period and the charge status during storage have a decisive influence on the possible useful life. Batteries should therefore be stored as briefly as possible, always fully charged, and within the temperature range 0 to +20 °C.
connection method	
type of electrical connection	screw terminal
• for UPS module	1 screw terminal each for 0.5 ... 10 mm ² for + BAT and - BAT
• for control circuit and status message	1 screw terminal each for 0.2 ... 2.5 mm ²
mechanical data	
width × height × depth of the enclosure	89 × 156 × 169 mm
installation width × mounting height	89 mm × 256 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	snaps onto DIN rail EN 60715 35x15 or wall mounting with accessories wall mounting set 6EP4990-0MK00-0XU0
• DIN-rail mounting	Yes
• S7 rail mounting	Yes
net weight	3.8 kg
number of cells	2
accessories	
product component included	2x Maxi Fuse 25 A/32 V
mechanical accessories	BAT1600 wall mounting kit 6EP4990-0MK00-0XU0
further information internet links	
internet link	
• to website: Industry Mall	https://mall.industry.siemens.com
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: power supplies	https://siemens.com/sitop
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

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Classifications

	Version	Classification
eClass	14	27-05-04-03
eClass	12	27-05-04-03
eClass	9.1	27-05-04-03
eClass	9	27-05-04-03
eClass	8	27-05-04-03
eClass	7.1	27-05-04-03
eClass	6	27-05-04-90
ETIM	9	EC000357
ETIM	8	EC000357
ETIM	7	EC000357

Approvals Certificates

General Product Approval



[Manufacturer Declaration](#)



For use in hazardous locations

Dangerous goods



[CCC-Ex](#)



[Dangerous goods information](#)

Environment



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