



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

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP4133-0GD00-0AY0
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
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	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 61010-1, UL61010-2-201 , CSA C22.2 No. 61010-1, CSA C22.2 NO 61010-2-201), File E143289
• UKCA marking	Yes
type of certification CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	Yes; IECEx Ex ec IIC T4 Gc
• ATEX	Yes; ATEX (EX) II 3G ex ec IIC T4 Gc

ULHazloc approval	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	14.787 kg
during manufacturing	9.373 kg
during operation	3.733 kg
after end of life	0.494 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 °C
during transport	-20 ... +50 °C
during storage	-20 ... +40 °C
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
wall mounting	No
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
- to web page: power supplies
- to website: CAX-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/tstcloud>
<https://siemens.com/sitop>
<https://www.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

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Classifications

	Version	Classification
eClass	16	27-05-04-03
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	10	EC000357
ETIM	9	EC000357
ETIM	8	EC000357
ETIM	7	EC000357

Approvals Certificates

General Product Approval

For use in hazardous locations



[Manufacturer Declaration](#)



EG-Konf.



UL



IECEX

For use in hazardous locations

Dangerous goods

[Miscellaneous](#)



ATEX

[CCC-Ex](#)



UL

[Dangerous goods information](#)

[Dangerous goods information](#)

Environment



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