



SITOP BAT1600/Battery module/24V/12AH/EX

SITOP BAT1600 EX 24 V DC 12 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	12 A·h
output current rated value	40 A
output current in buffering mode maximum	40 A
peak current	120 A; for 30 ms
charging current maximum	3 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	50A / 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
• CSA approval	Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)
• 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
• cCSAus, Class 1, Division 2	Yes

<ul style="list-style-type: none"> • CCC for hazardous zone according to GB standard 	Yes
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • Det Norske Veritas (DNV) 	Yes in preparation
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	44.7 kg 22.2 kg 18.4 kg 1.4 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	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	-15 ... +50 -20 ... +50 -20 ... +40
relative temporary capacity loss at 20 °C in a month typical	3 %
service life of energy storage	
<ul style="list-style-type: none"> • typical • at 20 °C typical • at 30 °C typical • at 40 °C typical • at 50 °C typical 	capacity falls to 80 % of original capacity (according to EUROBAT) 4 a 2 a 1 a 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
<ul style="list-style-type: none"> • for UPS module • for control circuit and status message 	1 screw terminal each for 0.5 ... 16 mm ² for + BAT and - BAT 1 screw terminal each for 0.2 ... 2.5 mm ²
mechanical data	
width × height × depth of the enclosure	225 × 156 × 138 mm
installation width × mounting height	225 mm × 256 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	50 mm 50 mm 0 mm 0 mm
fastening method	Wall mounting
<ul style="list-style-type: none"> • standard rail mounting • S7 rail mounting • wall mounting 	No No Yes
net weight	10.2 kg
number of cells	2
accessories	
product component included	2x Maxi Fuse 50 A/32 V
further information internet links	
internet link	
<ul style="list-style-type: none"> • to website: Industry Mall • to web page: selection aid TIA Selection Tool • to website: CAx-Download-Manager • to website: Industry Online Support 	https://mall.industry.siemens.com https://www.siemens.com/tstcloud http://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

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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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