



SITOP BAT1600/BATT.MODUL/24V/38AH

SITOP BAT1600 24 V DC 38 Ah Pb battery module with maintenance-free closed lead-acid battery for SITOP UPS1600

Charging current charging voltage	
end-of-charge voltage at DC	
<ul style="list-style-type: none"> at -10 °C recommended 	28 V
<ul style="list-style-type: none"> at 0 °C recommended 	28 V
<ul style="list-style-type: none"> at 10 °C recommended 	27.8 V
<ul style="list-style-type: none"> at 20 °C recommended 	27.3 V
<ul style="list-style-type: none"> at 30 °C recommended 	26.8 V
<ul style="list-style-type: none"> at 40 °C recommended 	26.6 V
<ul style="list-style-type: none"> at 50 °C recommended 	26.3 V
Output	
output current rated value	40 A
charging current maximum	9 A
output voltage at DC rated value	24 V
Safety	
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
Approvals	
certificate of suitability	
<ul style="list-style-type: none"> CE marking 	Yes
<ul style="list-style-type: none"> UL approval 	Yes
<ul style="list-style-type: none"> as approval for USA 	UL-Listed (UL 621010, CSA C22.2 No. 107.1)
<ul style="list-style-type: none"> CSA approval 	Yes
<ul style="list-style-type: none"> cCSAus, Class 1, Division 2 	No
<ul style="list-style-type: none"> ATEX 	No
certificate of suitability	
<ul style="list-style-type: none"> C-Tick 	Yes
<ul style="list-style-type: none"> shipbuilding approval 	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) 	Yes
<ul style="list-style-type: none"> DNV GL 	Yes
environmental conditions	
Operating data note	For storage, mounting and operation of batteries, the relevant DIN/VDE regulations or country-specific regulations (e.g. VDE 0510 Part 2/EN 50272-2) must be observed.
ambient temperature	
<ul style="list-style-type: none"> during operation 	-15 ... +50 °C

<ul style="list-style-type: none"> • during transport 	-30 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-20 ... +40 °C
relative temporary capacity loss at 20 °C in a month typical	3 %
Service life	
service life of energy storage	capacity falls to 80 % of original capacity (according to EUROBAT)
<ul style="list-style-type: none"> • typical 	10 a
<ul style="list-style-type: none"> • at 20 °C typical 	5 a
<ul style="list-style-type: none"> • at 30 °C typical 	2.5 a
<ul style="list-style-type: none"> • at 40 °C typical 	1.25 a
<ul style="list-style-type: none"> • at 50 °C typical 	
ambient temperature during storage	In addition to the storage temperature, additional factors, such as storage duration and charging status during storage, have a major impact on the potential service life. This means batteries should preferably be stored fully charged for short periods of time in a dry, cool and frost-proof (temperature range 0 to +20 °C) location.
Mechanics	
type of electrical connection	Plug-in terminals with screwed connection
<ul style="list-style-type: none"> • for power supply unit 	1 screw terminal each for 0.5 ... 16 mm ² for + BAT and - BAT
<ul style="list-style-type: none"> • for control circuit and status message 	1 screw terminal each for 0.2 ... 2.5 mm ²
product component included	2x Maxi Fuse 50 A/32 V
width of the enclosure	394 mm
height of the enclosure	212 mm
depth of the enclosure	165 mm
installation width	330 mm
mounting height	262 mm
required spacing	
<ul style="list-style-type: none"> • top 	50 mm
<ul style="list-style-type: none"> • bottom 	50 mm
<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • right 	0 mm
fastening method	
<ul style="list-style-type: none"> • wall mounting 	No
<ul style="list-style-type: none"> • standard rail mounting 	No
<ul style="list-style-type: none"> • S7 rail mounting 	No
fastening method	Floor mounting
net weight	27.9 kg
number of cells	2
battery capacity	38 A·h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

