BAT12Wh (Li-Ion)



Maintenance free Li-Ion technology

Hi-Tech Power Boost for Out: 12 or 24 V 12Wh

Protection: Over-current, Over-voltage, Over-charge,

Deep-discharge, Short circuit

Balance Cell Function

High reliability: Long-life battery pack Auto Testing for the battery State ADELBus "CAN" connection

Manual Power Off Switch

Multicolor Indicator

IP20, Din Rail and Wall Mount

Fosturo

Battery Bank for DC-UPS "All In One". Lithium-ion technology, maintenance-free. For 12V or 24V field. Simple connection with screw terminals for Wall mount or DIN rail. The device integrates CAN protocol communication to transfer and receive all data in ADELBus field.

Technical Data

Nominal Input Voltage	12 or 24 VDC
Automatic determination of input voltage	At first power-up
Max Charging Voltage	28 Vdc
Internal Protection Fuse	7.5 A
External Protection Fuse (recommended)	10 A
Output Short Circuit and Overload	Automatic Protection
Communication	CANopen

Battery

battery type	Z Celis Li-Ioli, Z Ali
Battery Voltage	3.7 Vdc
Energy	12Wh
Life Cycle	1500 charge cycles (50°C)
Typical Charging Time (recover to 90% capacity)	30 min
Battery Protection	Deep Discharge, Over-
•	Charge, Short Circuit

2 colle Li Ion 2 Ab

protection

24 Vdc ± 5%

72 W

12V system "DC Output"

Output voitage	12 VUC ± 5%
Max. Power	72 W
12V system "Charging Data"	
End-of-charge	35 mA
Absorption charging current (Max.)	0.3 A
12V system "Discharging Data"	
Battery disconnection from CBI	< 11 VDC
Nominal Discharging current	5 A
Max. permissible Discharging current	6 A
Self-discharge rate at 20 °C	35uA (typ) 1.5% x month

24V system "DC Output" Output Voltage

Max. Power

24V system "Charging Data"	
End-of-charge	35 mA
Absorption charging current (Max.)	0.3 A
24V system "Discharging Data"	
Battery disconnection from CBI	< 23 VDC
Nominal Discharging current	2.5 A
Max. permissible Discharging current	3 A
Self-discharge rate at 20 °C	35uA (typ) 1.5% x month

Self-discharge rate at 20 °C Indicators and Command

Hulcators and Communic	
LED Charge ON	Battery Charging
LED Charge OFF	Not Charging
LED Battery State ON "Green"	Batt. Capacity > 90%
LED Battery State Constant Flashing "Green"	Battery Charging
LED Battery State OFF	Low Battery
LED Battery State "Red"	Fault
Push Button to turn ON and OFF the Battery Bank	Press for 1 sec.
	Release the button

General Data

IP 20
III
0.2 - 2.5 mm² (24 – 12
AWG) 0.6 - 0.8 Nm

Dimension (WxHxD) DIN 43880	54 x 90 x 55 mm
Surge Protection	1.5 KV
Weight	0.4 kg
DIN Rail	Yes
Wall mount	Yes

Data and Communications

Data and Communications	
Remote monitoring data:	AUX1
Protocol:	ADELBus (CAN)
Climatic Data	
Operating ambient temperature	-30 55 °C
Recommended storage temperature	25 °C ± 5%
Recommended storage charge level	80 %
Humidity at 25 °C no condensation	95 %

Norms and certifications

CE marking according to EMC Directive 2014/30/UE and Low Voltage Directive 2014/35/UE.

Electrical Safety

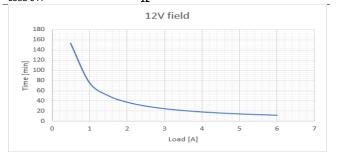
In compliance with UL508, EN IEC 61010-2-201:2018

According to EN 60950-1/VDE 0805 (SELV) and EN 50178/VDE 0160 (PELV).

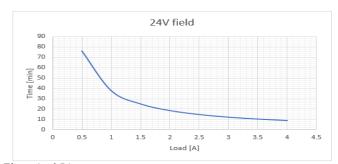
EN IEC 62368-1: 2014/AC:2015

Buffering time

Load	Minutes (12V)	Minutes (24V)
Load 0.5 A	154	58
Load 1 A	76	31
Load 1.5 A	51	20
Load 2 A	38	15
Load 2.5 A	30	12
Load 3 A	25	10
Load 3.5 A	21	-
Load 4 A	18	-
Load 4.5 A	16	-
Load 5 A	15	-
Load 5.5 A	13	-
Load 6 A	12	•







Electrical Diagram

