

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

ADEBus "CAN" connection

Manual Power Off Switch

Multicolor Indicator

IP20, Din Rail and Wall Mount

Feature

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 ADEBus 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

Internal Battery Pack

Battery Type	two 2000 mAh Li-Ion cells
Battery Voltage	7.2 Vdc
Energy	12Wh
Life Cycle	> 500 full cycles
Typical Charging Time (recover to 90% capacity)	30 min
Battery Protection	Deep Discharge, Over-charge, Short Circuit protection

12V system "DC Output"

Output Voltage	12 Vdc $\pm$ 5%
Max. Power	72 W

12V system "Charging Data"

Input Voltage min.	13 Vdc $\pm$ 5%
Absorption charging current (Max.)	0.3 A
End-of-charge	35 mA

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	24 Vdc $\pm$ 5%
Max. Power	72 W

24V system "Charging Data"

Input Voltage min.	26 Vdc $\pm$ 5%
Absorption charging current (Max.)	0.3 A
End-of-charge	35 mA

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

Indicators and Command

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

Protection Degree (EN/IEC 60529)	IP 20
Protection Class	III

Screw type terminals:	0.2 - 2.5 mm ² (24 – 12 AWG) 0.6 - 0.8 Nm
Torque:	
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

Remote monitoring data:	AUX1
Protocol:	ADEBus (CAN)

Climatic Data

Operating ambient temperature	0 ... 40 °C
Storage ambient temperature	-20°C ... 45 °C
Recommended storage charge level	80 %
Humidity at 25 °C, no condensation	95 %

Norms and certifications

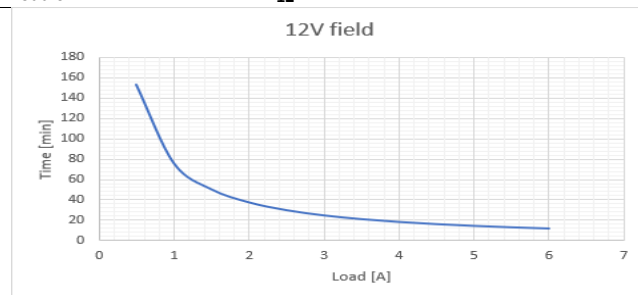
CE marking according to EMC Directive 2014/30/UE and Low Voltage Directive 2014/35/UE.

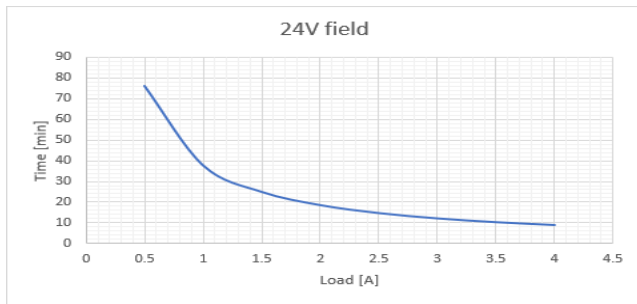
Electrical Safety

In compliance with IEC EN 62368-1.

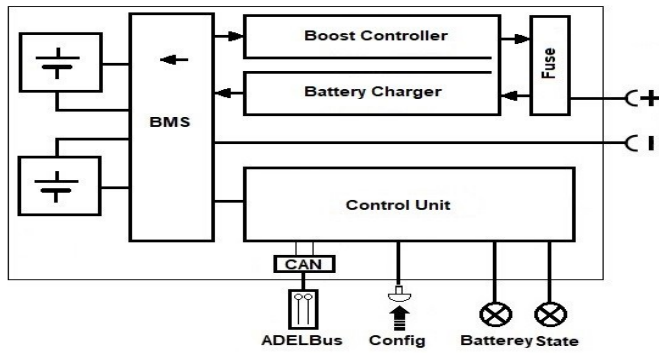
Buffering time

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



Mounting instruction

DIN Rail Mount and Wall Mount

