

Datasheet for the model MB24314**MegaBox 24 V/ 314 Ah/ 8 kWh****Intended use:**

- For caravans, **boats, cottages, residential**, and other **projects**
- For easy **replacement of original batteries** at the end of their service life in various systems
- For customers who require customization and **plug-and-play solutions**
- For optimal solutions using **modularity**

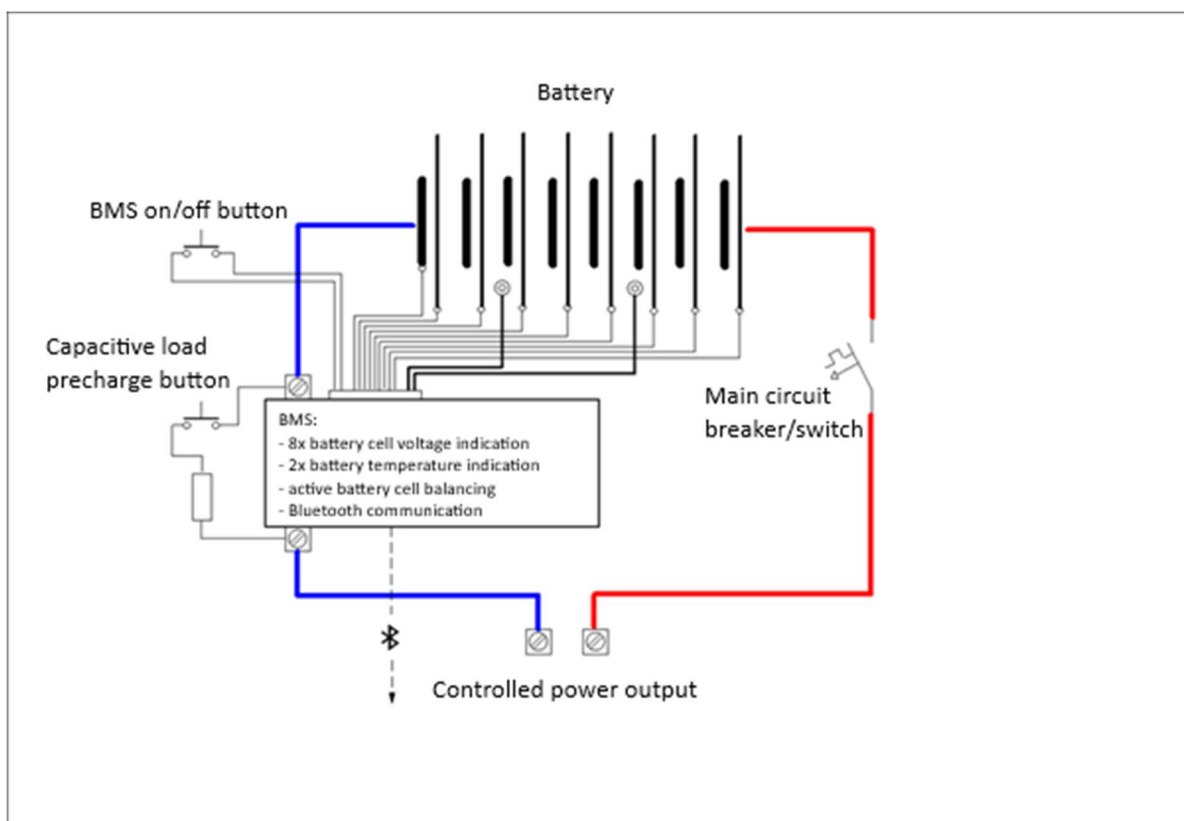
Product features

- **A structurally simple and flexible electrical energy storage system** assembled from battery cells connected in series with a total nominal capacity of **8.04 kW and standardized mechanical and electrical components**. The customer receives a solution with above-standard service life, usability, and future **variability**.
- The battery storage system features the safest lithium battery technology available and the best price/performance ratio of **LiFePO4 cells** in a safe **24 V** low-voltage module. The module consists of **8 cells**, each with a voltage of **3.2 V / 314 Ah**. Thanks to the careful selection of cells and BMS, maximum power and capacity are always available. Communication with the battery storage is provided via a mobile phone with a **Bluetooth connection**.
- The module consists of a **robust yet lightweight hardened aluminium construction** that is very easy to assemble. This ensures mechanical protection and dimensional stability of the cells thanks to compression. The module includes a mounting platform for electrical components.

- The modules can be **easily fixed to a movable platform or placed in a stationary installation with minimal space requirements**, thanks to their **stackability**. It is also possible to place them **side by side or scatter them** and connect them into a single system.
- Thanks to the **standardization, availability, and interchangeability of all module parts**, **reliable warranty and post-warranty service** is ensured.

Technical specifications

Parameter	Value	Note
Nominal voltage (V)	25.6	
Nominal capacity (Ah / kWh)	314 / 8.04	
Max. continuous charging current (A)	200	Recommended max. 157 A
Max. continuous discharging current (A)	200	Recommended max. 157 A
Operating temperature of the box (°C)	5 to 40	
Cyclic life	6000	60% DOD @0.3C/@0.3C, @25°C, >60% SOH
Turning off charging (V)	3.70	Reaching this value on any battery cell
Restarting charging (V)	3.50	Drop on a cell that has exceeded 3.70V
Turning off discharging (V)	2.70	Drop of any battery cell to this value
Restarting discharging (V)	3.00	Rise on a cell that has dropped to 2.70V
Overcurrent shutdown (A)	250	For charging and discharging, BMS delay 120 s, circuit breaker delay depends on the type of overload
Max. temperature – turning off charging / discharging (°C)	70 / 70	Restarting 60 / 60
Min. temperature – turning off charging (°C)	0	Restarting 5
BMS own consumption in operating mode (mA)	< 10	
BMS self-consumption when switched off (mA)	< 0.1	
BMS shutdown due to undervoltage (V)	20.00	
Balancing current	2 A	Active balancer
Main circuit breaker	200 A	Switch-off characteristics C
Dimensions of the assembled module l / w / h (mm)	675/185/355	Height, including lower and upper cap nuts M10
Total weight of the assembled module (kg)	54	Including electrical equipment
Weight of a single box (kg)	7.7	Including a mounting platform for electrical installation
Height of space above cell terminals (mm)	30	Approximate value, depends on the type of cells
Space for electrical components on the electrical platform l / w / h (mm)	670/185/60	

Electrical diagram – 24 V 314 Ah module**Note:**

! The built-in BMS cannot be reconfigured, only the battery status can be monitored !
The BMS with balancer is set to specific battery storage parameters. Any unprofessional intervention or change to the set parameters will result in loss of warranty.

Package contents:

Fully assembled, tested battery storage is ready for immediate use.