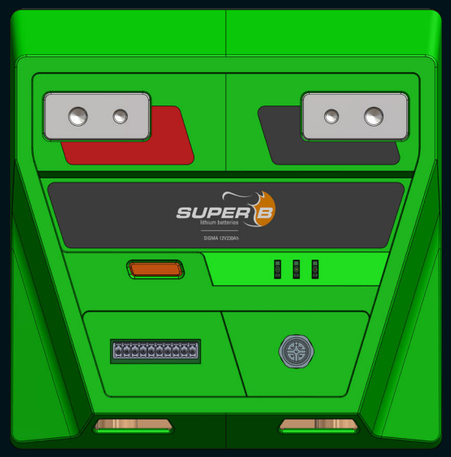
12V LITHIUM TRACTION BATTERY WITH PROTECTIVE BMS

SIGMA 230Ah

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FEATURES

- Traction battery
- Lithium Iron Phosphate (LiFePo4)
- Integrated protective BMS (Battery Management System)
- Active Cell balancing
- Communication interface:
  - CAN
    - CANopen
    - RV-C
    - Victron
  - LIN (CI-BUS, VW-LIN)
  - Bluetooth (Low Energy)
- Battery monitoring / History Storage
- Three wet IO contacts, open collector, event trigger configurable for:
  - Inverter control
  - Generator control
- Up to 4 in parallel
- Charger control by CAN and LIN
- Smart Heating with configurable options
- Integrated On\Off button
- Wired on\off button connection (with support for LED indication)

Discover the Sigma 230Ah: built for motorhome installations with serious energy demands.

High capacity and high discharge currents, in a battery designed to install wherever it suits your setup, even the underseat bay. Need more? Add another unit. Smart, safe, and always ready, with an integrated protective BMS and app control built in.

PERFORMANCE

- Lightweight: 22kg approx.
- Cycle life: ≥5000cycle [1]
- Max. charge current: 200A
- Max. continuous discharge current: 200A
- Discharge pulse current: 350A
- Ingress protection: ≥IP20

SAFETY

Super B batteries use LiFePO4 battery technology with high thermal stability.

PRIMARY APPLICATIONS:

- Recreational Vehicles
  - Suited for under seat installations
- Material Handling / Industrial
- Energy Storage

BATTERY PROTECTION:

- Under voltage protection
- Deep discharge protection including controlled recovery
- Over voltage protection
- Robust mechanical construction
- Overcurrent charge and discharge protection
- Temperature protection

Chemistry	Lithium Iron Phosphate (LiFePo4)
Nominal Voltage	12.8V
Open circuit voltage (OCV)	13.2V
Capacity	230Ah
Energy	2.944Wh
BMS	Integrated and protective
Storage life	>365 days [2]
Communication	Yes
Charge Current	Max. 200 A
Continuous Discharge Current	Max. 200 A
Charge Temp.	-30°C to +65°C [3]
Discharge Temp.	-30°C to +65°C
Storage Temp.	0°C to +35°C
Weight	Approx. 22Kg
Dimensions (L x W x H)	351 x 182 x 189mm
Ingress Protection	IP20
Casing Material	UL 94 flame classification V-0 (Flame-retardant)

FUNCTIONAL SAFETY

Type Approval	UN ECE R10 FCC Class B / ICES-003 EMC, RED (household/ Industrial)
Shipping Certifications	UN 38.3, UN3480, Class 9
Series connection	NO
Parallel connection	Yes up to 4

Table: Battery specifications (at 23°C if not stated otherwise)

[1] Charge with CCCV (0.2C, 3.65V) at 25°C 30mins rest, discharge to 2.5V cutoff with 0.2C at 20°C. Capacity decrease to 80% of initial capacity.
[2] See usage and maintenance manual.
[3] Limited charge current below 0°C, <50A, -30°C with heating enabled