12V LITHIUM TRACTION BATTERY WITH PROTECTIVE BMS

SIGMA 460Ah

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Discover the Sigma 460Ah: 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.

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)

PERFORMANCE

- Lightweight: 40kg approx.
- Cycle life: ≥5000cycle [1]
- Charge current: 200A
- Continuous discharge current: 300A
- Discharge pulse current: 350A
- Ingress protection: ≥IP20

SAFETY

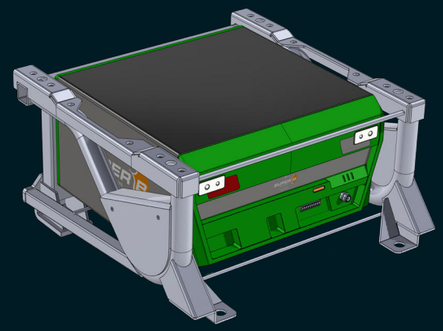
Super B batteries use LiFePO4 battery technology with high thermal stability.

PRIMARY APPLICATIONS:

- Recreational Vehicles
  - Suited for most 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	460Ah
Energy	5.888Wh
BMS	Integrated and protective
Storage life	>365 days [2]
Communication	Yes
Charge Current	200A
Continuous Discharge Current	300A
Charge Temp.	-30°C to +65°C [3]
Discharge Temp.	-30°C to +65°C
Storage Temp.	0°C to +35°C
Weight	Approx. 40Kg
Dimensions (L x W x H)	351 x 356 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