

PRELIMINARY DATASHEET EPSILON 12V100Ah

The Epsilon 12V100Ah Lithium Iron Phosphate battery has the highest capacity in a standard casing available on the market. The highly sophisticated and integrated BMS brings safety, functionality and ease of use together in a lightweight and robust casing. The fully automatic heating functionality, improved bluetooth connectivity and multi connectable coated aluminium terminals makes this battery a must-have. The battery is available from January 2022 onwards.

BATTERY MONITORING & HEATING FUNCTIONALITY









The Epsilon 12V100Ah has integrated battery monitoring which provides details about its status such as voltage, current, temperature, state of charge and time remaining. Hands-on monitoring is also possible via Bluetooth and LED indicators to inform you about the actual status of your battery. The fully automatic heating functionality makes it possible to charge and use the battery during freezing weather conditions.

FEATURES

- A-grade prismatic cells for highest possible energy density
- Lithium Iron Phosphate (LiFePO₄): safest lithium technology
- Multi connectable coated aluminium terminals, include temperature sensors
- Integrated short circuit protection
- Integrated BMS (Battery Management System)
- Fully automatic heating functionality for charging below 0°C
- CANopen, LIN and CI-bus communication
- Adaptive cell balancing
- Robust casing made from environmentally friendly materials (fully recyclable)
- Bluetooth connectivity: 24/7 insight on the battery status via the Be in Charge app (IOS and Android compatible)



PERFORMANCE

							
Integrated BMS	Heating function	Safest lithium technology	High discharge rates	High capacity	Low weight	High cycle count	Fast charging

SAFETY

Super B batteries are based on Lithium Iron Phosphate technology (LiFePO₄). This is the safest Lithium technology available today. On top of that our bespoke casing and electronics further increase safety and durability.

ELECTRICAL SPECIFICATIONS

Nominal Capacity	100Ah
Energy	1280Wh
Nominal Voltage	12.8V
Open Circuit Voltage	13.2V
Self Discharge	<3% per Month
Cycle life	>5000 cycles

CHARGE & DISCHARGE SPECIFICATIONS

Charge Method	CCCV
Charge Voltage	14.3V - 14.6V
Max Charge Current	90A
End of Discharge Voltage	8V
Discharge Current Continuous	190A
Discharge Pulse Current (10 sec)	300A

COMPLIANCE SPECIFICATIONS

Certifications	CE, FCC, UN 38.3, UN ECE R10.05, UL 1642 (Cells)
Shipping Classification	UN 3480

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	278 x 175 x 190 mm 11" x 6.9" x 7.5" [= DIN H6 / LN3]
Weight	11 kg / 24 lbs
Case Material	PC/ABS
Ingress Protection	IP66
Cell Type / Chemistry	Prismatic - LiFePO ₄

TEMPERATURE SPECIFICATIONS

Charge Temperature	-30°C to 45°C -22°F to 113°F
Discharge Temperature	-20°C to 55°C -4°F to 131°F
Storage Temperature	-20°C to 45°C -4°F to 113°F

GENERAL PRODUCT SPECIFICATIONS

EAN-13	8718531362208
Battery Designation	IFpP/27/148/130[3p4s] M/-20+55/150