

DATASHEET NOMADA 12V105Ah

The Nomada 12V105Ah is a modular Lithium Iron Phosphate (LFP) rechargeable battery with a rated capacity of 105 Ah. This new addition to our portfolio of traction batteries has a compact and lightweight modular design which means you can easily scale up your energy system. This makes the Nomada 12V105Ah extremely suitable for multiple applications like marine, off-highway vehicles, material handling, energy storage, UPS, buses and trucks.

With this building block you can configure systems until 840Ah (max 8 in parallel) or 800V (max 60 in series). The unique combination of state-of-the-art technology, an integrated BMS and smart software makes this lithium battery a robust, safe and easy to use energy storage solution.

FEATURES

- Traction battery
- Lithium Iron Phosphate (LiFePO₄): safe lithium technology
- Integrated BMS (Battery Management System)
- PC-ABS (Polycarbonate) | UL94-V0 Casing
- Terminals for 2 x M8 Bolts
- Wired communication interface: CANopen
- Battery monitoring / History Storage
- Adaptive cell balancing
- Configurable in serial or parallel connection



Due to its modular design its easy to build your own energy system



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.

PERFORMANCE



Modular design



Fast Charging



High discharge rates



Compact size



High capacity



Low weight



High cycle count



Low self-discharge

3-YEAR WARRANTY

Super B's 3-year warranty offers the best peace of mind. It is the benefit of years of continuous engineering improvement and proven experience with all of our batteries in the harshest environments.



ELECTRICAL SPECIFICATIONS

Nominal Capacity	105Ah
Energy	1344Wh
Nominal Voltage	12.8V
Open Circuit Voltage	13.2V
Self Discharge	<3% per Month
Cycle life	>3500 (at 1C charge/discharge, 100% DoD)

CHARGE & DISCHARGE SPECIFICATIONS

Charge Method	CCCV
Charge Voltage	14.3V - 14.6V
Max Charge Current	105A
End of Discharge Voltage	10V
Discharge Current Continuous	315A
Discharge Pulse Current (10 sec)	525A (5C) ²

COMPLIANCE SPECIFICATIONS

Certifications	CE, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620 (ESTRIN)
Shipping Classification	UN 3480

¹Do not charge below 0 °C / 32°F.

²5C discharge pulse currents are only possible at >60% SoC.

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	437 x 90 x 175 mm 17.2" x 3.5" x 6.9"
Weight	10 kg / 22 lbs
Case Material	PC-ABS UL94-V0
Ingress Protection	IP66
Cell Type / Chemistry	Prismatic - LiFePO4

TEMPERATURE SPECIFICATIONS

Charge Temperature	0°C to 55°C ¹ 32°F to 131°F ¹
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	8718531361799
Battery Designation	IFpP/36/130/195/ [4S]M/-20+50/90