



# DATASHEET

## NOMADA 12V105Ah

The Nomada 12V105Ah is a modular Lithium Iron Phosphate (LiFePO<sub>4</sub>) 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 (LiFePO<sub>4</sub>): 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

### SAFETY

Super B batteries are based on Lithium Iron Phosphate technology (LiFePO<sub>4</sub>). 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	105Ah
Energy	1344Wh
Nominal Voltage	12.8V
Open Circuit Voltage	13.2V
Self Discharge	<3% per Month
Cycle life	>3500 cycles (at 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	105A
Discharge Pulse Current (30 sec)	315A

## COMPLIANCE SPECIFICATIONS

Certifications	CE, UKCA, FCC, DNV, UN 38.3, UL 1642 (Cells), UN ECE R10.06, EN/IEC 62620 (ESTRIN)
Shipping Classification	UN3480

\*When temperature is < 0°C / 32°F or > 55°C / 131°F performance will be degraded.

## PERFORMANCE



Modular design



Fast Charging



High discharge rates



Compact size



High capacity



Low weight



High cycle count



Low self-discharge

## 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 <sup>1</sup> 32°F to 131°F <sup>1</sup>
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/ [1P4S]M/-20+55/90