

# DATASHEET NOMIA 12V100Ah

The Nomia 12V100Ah is a Lithium Iron Phosphate rechargeable battery with a rated capacity of 100Ah. The unique combination of state-of-the-art technology and smart software makes this lithium battery a robust, safe and easy to use energy storage solution.

Compared to conventional lead-acid batteries, the Nomia 12V100Ah lithium battery offers an enormous weight and space saving. It is very efficient, has extremely high performances and is maintenance free.

## FEATURES

- Traction battery
- Lithium Iron Phosphate (LiFePO<sub>4</sub>): safe lithium technology
- Integrated BMS (Battery-Management system); external interruption device needed
- Glass fiber reinforced plastic (GFRP) Casing, Aluminum / PE sandwich side panels
- Terminals for 2 x M8 Bolts
- Integrated fuse, 32V / 500A
- Wired communication interface: CANopen
- Battery monitoring / History Storage
- Adaptive cell balancing
- Configurable in serial or parallel connection- Output for bi-stable relay / latching relay



## 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.

## PERFORMANCE



Low maintenance



Fast Charging



Safest lithium technology



High discharge rates



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	100Ah
Energy	1280Wh
Nominal Voltage	12.8V
Open Circuit Voltage	13.2V
Self Discharge	<3% per Month
Cycle life	>2000 (at 1C charge/ discharge, 100% DoD)

## CHARGE & DISCHARGE SPECIFICATIONS

Charge Method	CCCV
Charge Voltage	14.3V - 14.6V
Max Charge Current	100A
End of Discharge Voltage	8V
Discharge Current Continuous	300A
Discharge Pulse Current (10 sec)	500A

## COMPLIANCE SPECIFICATIONS

Certifications	CE, FCC, UN 38.3, UN ECE R10.05, EN/IEC 62620
Shipping Classification	UN 3480

## MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	417 x 227 x 314 mm 16.4" x 8.9" x 12.4"
Weight	18.5 kg / 40.8 lbs
Case Material	GFRP
Ingress Protection	IP50
Cell Type / Chemistry	Prismatic - LiFePO4

## TEMPERATURE SPECIFICATIONS

Charge Temperature	0°C to 45°C <sup>2</sup> 32°F to 113°F <sup>2</sup>
Discharge Temperature	-10°C to 55°C 14°F to 131°F
Storage Temperature	-20°C to 45°C -4°F to 113°F

## GENERAL PRODUCT SPECIFICATIONS

EAN-13	8718531360662
Battery Designation	IFpP/68/143/217/ [4S]M/-20 +55/90

<sup>1</sup>When temperature is < 0°C / 32°F or > 45°C / 113°F performance will be degraded.