

# **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**

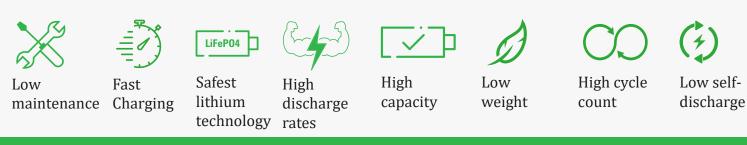
- Traction battery
- Lithium Iron Phosphate (LiFePO4): safe lithium technology
- Integrated BMS (Battery-Management system); external interruption device needed
- Glass fiber reinforced plastic (GFRP) Casing, Aluminum / PE sandwich side panels
- Terminals for 2 x M8 Bolts
- Integrated fuse, 32V / 500A
- 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 (LiFePO4). This is the safest Lithium technology available today. On top of that our bespoke casing and electronics further increase safety and durability.

# PERFORMANCE



## **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)

# **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

# CHARGE & DISCHARGE SPECIFICATIONS TEMPERATURE 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

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

# **COMPLIANCE SPECIFICATIONS**

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

# **GENERAL PRODUCT SPECIFICATIONS**

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

<sup>1</sup>Do not charge below 0 °C / 32 °F