Version 1.1

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 a weight saving of up to 70%, based on usable capacity, and takes up less space. It is efficient, delivers high performance 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 technology offers high thermal stability. On top of that our bespoke casing and electronics further increase safety and durability.

PERFORMANCE

Low maintenance

Fast Charging

High thermal stability

High discharge rates

High capacity

Low weight

High cycle count

Low self-discharge

3-YEAR WARRANTY

Super B batteries come with a 3-year warranty, backed by years of continuous engineering improvement and practical experience in demanding 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

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

TEMPERATURE SPECIFICATIONS

Charge Temperature	0°C to 45°C[2] 32°F to 113°F[2]
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

[1]When temperature is < 0ºC / 32ºF or > 45ºC / 113ºF performance will be degraded.

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