



DATASHEET

NOMIA 12V340Ah-SIL

The Nomia 12V340Ah-SIL is a Lithium Iron Phosphate rechargeable battery with a rated capacity of 340Ah. 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 12V340Ah-SIL 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 technology offers high thermal stability. On top of that our bespoke casing and electronics further increase safety and durability.

ELECTRICAL SPECIFICATIONS

Nominal capacity	340 Ah
Energy	4352 Wh
Nominal Voltage	12.8 V
Open Circuit Voltage	13.2 V
Self Discharge (incl. BMS)	Max. 3.5% idle / max. 8.3% active
Cycle life	> 4000 cycles (at 100% DoD)

CHARGE & DISCHARGE SPECIFICATIONS

Charge Method	CCCV
Charge Voltage	14.2 V
Max Charge Current	300 A
End of Discharge Voltage	10 V
Discharge Current Continuous	300 A
Discharge Pulse Current (30 sec)	900 A

COMPLIANCE SPECIFICATIONS

Certifications	CE, UKCA, FCC, UN 38.3, EN/IEC 62619-62620 (ESTRIN), UN ECE R10.06, UL 1642 (Cells)
Shipping Classification	UN3480

PERFORMANCE



Low maintenance



Fast Charging



High discharge rates



High thermal stability



High capacity



Low weight



High cycle count



Low self-discharge

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	417 x 227 x 314 mm 16.4" x 8.9" x 12.4"
Weight	33 kg / 72.7 lbs
Case Material	GFRP
Ingress Protection	IP50
Cell Type / Chemistry	Prismatic - LiFePO4

TEMPERATURE SPECIFICATIONS

Charge Temperature	0 °C to 60 °C 32 °F to 140° F
Discharge Temperature	-10 °C to 60 °C 14 °F to 140 °F
Storage Temperature	-20 °C to 45 °C -4 °F to 113 °F

GENERAL PRODUCT SPECIFICATIONS

EAN-13	8718531362512
Battery Designation	IFpP/41/173/205/[2P4S]M/-10+60/95