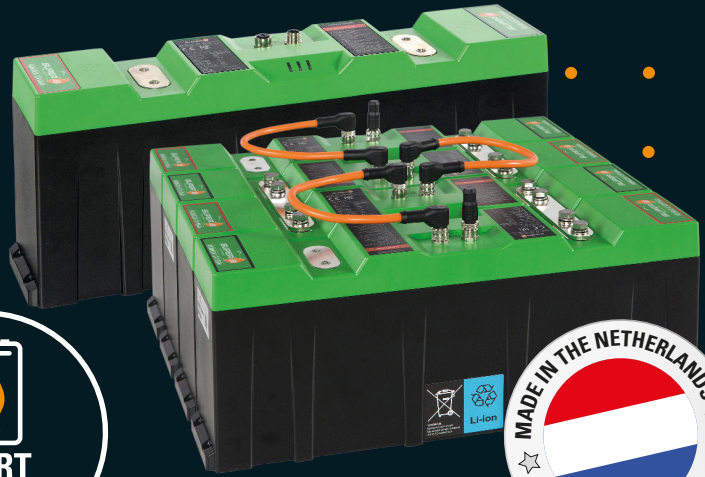




DATASHEET

NOMADA 12V105Ah-LT

The Nomada 12V105Ah-LT is an advanced modular Lithium Iron Phosphate (LiFePO₄) rechargeable battery boasting a rated capacity of 105 Ah. Its compact and lightweight modular design facilitates effortless scalability for your energy system. This exceptional flexibility renders the Nomada 12V105Ah-LT highly suitable for a diverse range of applications, including 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. The heating functionality allows seamless charging and usage of the battery even in sub-zero temperatures, enhancing its reliability across diverse environmental conditions.

FEATURES

- Traction battery
- Lithium Iron Phosphate (LiFePO₄): safe lithium technology
- Integrated BMS (Battery Management System)
- Fully automatic heating functionality with the use of compliant chargers for charging below 0°C / 32°F
- Terminals for 2 x M8 Bolts
- PC-ABS (Polycarbonate) | UL94-V0 Casing
- Wired communication interface: CANopen
- Battery monitoring / History Storage
- Adaptive cell balancing
- No additional cabling required
- Configurable in serial or parallel connection

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	105Ah
Energy	1344Wh
Nominal Voltage	12.8V
Open Circuit Voltage	13.2V
Self Discharge (incl. BMS)	Max. 3.9% idle / max. 24.9% active
Cycle life	>3500 cycles (at 100% DoD)
Heat up time	1°C/minute
Heat consumption	0,1C (10 Amp)

TEMPERATURE SPECIFICATIONS

Charge Temperature	-30°C to 55°C ^{1,2} -22°F to 131°F ^{1,2}
Discharge Temperature	-30°C to 55°C ^{1,2} -22°F to 131°F ^{1,2}
Storage Temperature	-20°C to 45°C -4°F to 113°F

COMPLIANCE SPECIFICATIONS

Certifications	CE, UKCA, FCC, UN 38.3, UL 1642 (Cells), UN ECE R10.06,
Shipping Classification	UN3480

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

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

GENERAL PRODUCT SPECIFICATIONS

EAN-13	8718531362536
Battery Designation	IFpP/36/130/195/[1P4S]M/-30+55/90
I-request	I-request complied charger
Heating configurable	Heating method is configurable
BCI control required	Smart heating control by BCI

¹Can be (dis)charged at an ambient temperature of -30 °C / -22°F, this battery incorporates heating elements, with warm-up times detailed in the manual.
²When temperature is < -30°C / -22°F or > 55°C / 131°F performance will be degraded.

PERFORMANCE



Modular design



Heating function



High discharge rates



Compact size



High capacity



Low weight



High cycle count



Low self-discharge