DYNAMP

LIFEPO4 BATTERY
DL40

12.8V 40Ah

Deep-Cycle Lithium Iron Phosphate Battery

12.8 V	40 Ah	512 Wh	40 A
VOLTAGE	CAPACITY	ENERGY	MAX DISCHARGE

The Dynamp 12.8V 40Ah is a 12.8 V lithium iron phosphate (LiFePO4) battery built from Gotion cylindrical cells in a 4S2P configuration. Engineered as a drop-in replacement for lead-acid, it delivers deep-cycle performance, a long service life and a fully integrated smart Battery Management System.

Cell-level figures are typical values for the LiFePO4 cylindrical cells used in this model.

ELECTRICAL

Nominal Voltage	**12.8 V**
Nominal Capacity	**40 Ah**
Energy	**512 Wh**
Charge Voltage	**14.6 V**
Recommended Charge Current	**0.2C – 0.5C**
Max. Continuous Discharge	**40 A**

BATTERY MANAGEMENT SYSTEM

BMS Continuous Current	**40 A**
Protections	**Over-charge, over-discharge, over-current, short-circuit, over/under-temperature**
Cell Balancing	**Active / passive balancing**
Communication	**Bluetooth app**
Low-Temp Charging	**Disabled below 0 °C**

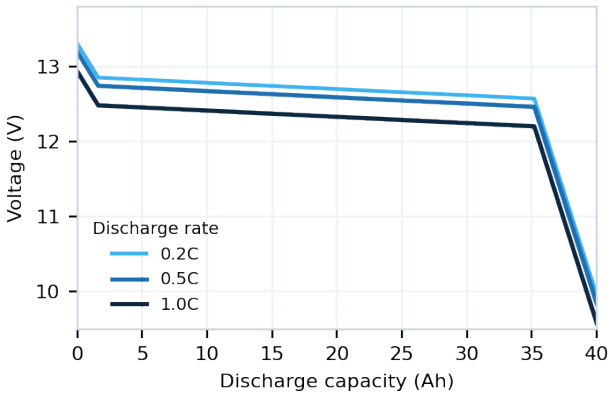
MECHANICAL

Dimensions (L×W×H)	**195 × 130 × 180 mm**
Weight	**3.9 kg**
Terminal Type	**Threaded (M8) / as supplied**
Enclosure Rating	**IP67**
Cell Configuration	**4S2P**
Cell Format	**Cylindrical**

CELL SPECIFICATION

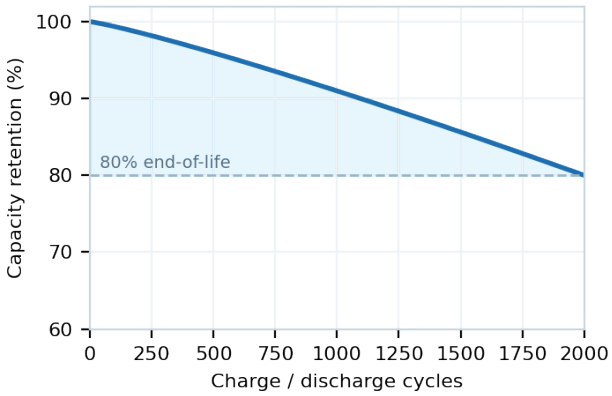
Cell Manufacturer	**Gotion**
Cell Model	**Cylindrical LiFePO4**
Cell Chemistry	**LiFePO4**
Cell Nominal Voltage	**3.2 V**
Cell Voltage Window	**2.0 V – 3.65 V**
Energy Density	**—**
Cycle Life	**≥2000 cycles (80% capacity, 25°C)**

Typical Discharge Curve (25 °C)



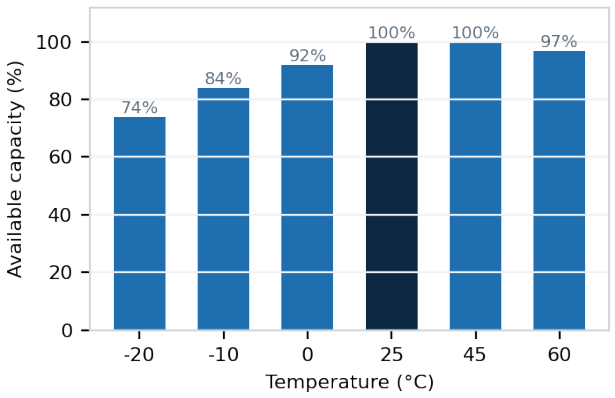
Typical pack voltage under constant-current discharge at 25 °C. Actual values vary with load, temperature and state of health.

Cycle Life — 2,000 cycles



Capacity retention over life, based on the Gotion cell rating. Tested at standard charge/discharge, 25 °C.

Capacity vs Temperature (0.5C)



Usable capacity as a function of ambient temperature (0.5C discharge), illustrating LiFePO4 cold-weather behaviour.

CHARGE PROFILE

Method	**CC/CV (Constant Current / Constant Voltage)**
Charge Voltage	**14.6 V**
Float Voltage	**13.6 V**
Recommended Charge	**0.2C – 0.5C**
Max Charge Current	**40 A**
Full-charge cut-off	**Current < 0.05C at 14.6 V**
Low-temp charging	**Not permitted < 0 °C**

TYPICAL APPLICATIONS

Leisure & Motorhomes · Marine & Boats · Off-grid & Solar · Caravans · Mobility · Expedition / Overland

All performance curves are representative of typical cell behaviour derived from the Gotion cell specification and standard LiFePO4 characteristics. They are provided for guidance only and do not constitute a guarantee of performance for any specific application.