



ENEPower

Enepower lithium battery solutions suitable for use in water utility applications such as irrigation, flow control, sluice and flume gates, canal diversions and more.

About the Enepower LFBM-IIB lithium battery series

The LFBM-IIB battery series is a range of self-contained 12.8V Lithium Iron Phosphate battery packs that provide reliable and consistent high power output, constructed within a highly durable, environmentally resistant case.

Each model is carefully integrated with a built-in Battery Management System (BMS) to provide all the safety features a LiFePO4 pack requires to protect against over-voltage, undervoltage, over-temperature, over-current and short circuits.

Each model comes in an aluminium case with stainless steel handles for easy handling. The batteries are also equipped with a WY24 connector capable of supplying 20A continuous to the load and include a precision temperature sensor (LM35) for external monitoring.

Designed for easy integration into existing systems

Enepower Lithium Iron Phosphate batteries outlast the Lead Acid equivalents in water utility and management type applications to reduce labour, replacement and maintenance costs, particularly as installation sites are typically in remote locations.

The LFBM-IIB range is available in 3 sizes to fit power and dimension requirements of existing systems.



Enepower Rechargeable Lithium: A smarter alternative to Lead Acid batteries



Higher energy efficiency for almost 100% usable capacity



Longer service life reduces replacement & maintenance costs



Lightweight for easier handling and reduced transport costs



Wider operating temperature range to endure fluctuations



Rugged aluminium case with stainless steel handle



Integrated BMS to ensure safe operation

Models in the range

- LFBM-IIB12854 — 12.8V 54Ah 691.2Wh
- LFBM-IIB12875 — 12.8V 75.6Ah 967.7Wh
- LFBM-IIB128108 — 12.8V 108Ah 1382.4Wh



LFBM-IIB Lithium Battery Range

Enepower lithium batteries offer many benefits over traditional lead acid batteries such as:

- Higher *effective* capacity (not just rated capacity) means longer runtime per charge.
- Longer service life: up to 2,000 charge/discharge cycles (100% DoD).
- Lightweight – higher power at about 1/3 the weight of equivalent SLA.
- Extremely energy efficient and ideally suited for deep cycle applications, charging well by solar power.
- Superior energy efficiency also means the battery can be recharged at a higher rate to significantly reduce down time.
- Wider operating temperature range to withstand environmental temperature fluctuations.
- Integrated BMS to ensure safe operation.
- Maintenance free for lower overall service costs.



WY24-9-pin to JST wire harness included



Top mounted connection point and handle

Range Specifications

Model Number		LFBM-IIB12854	LFBM-IIB12875	LFBM-IIB128108
Chemistry				
		Lithium Iron Phosphate (LiFePO4)		
Voltage		12.8V	12.8V	12.8V
Battery Capacity		54Ah	75.6Ah	108Ah
Effective Capacity Comparison	Enepower LiFePO4	100% = 54Ah	100% = 75.6Ah	100% = 108Ah
	SLA Equivalent	65% = 36.4Ah	65% = 54.6Ah	—
Max Continuous Charge Current		10A	10A	20A
Max Continuous Discharge Current		20A	20A	20A
Temperature	Charging	0°C to 45°C		
	Discharging	-20°C to 60°C		
	Storage	-20°C to 45°C		
Cycle Life		≥2000 cycles (100% DoD) ≥4000 cycles (80% DoD)		
Connector		WY24 - male 9 pins		
Connection		No series or parallel connection allowed		
Case Material		SPCC		
Dimensions (W x D x H)		180 x 130 x 242mm	180 x 130 x 362mm	180 x 130 x 490mm
Weight		9kgs	12kgs	21kgs
IP Rating		IP55		

All specifications are correct at time of creation. All specifications and operation conditions are subject to change or improvement without prior notice to the user.