PHOENIX
ENERGY STORAGE
PRIVATE LIMITED

Our **wall-mount LFP energy storage module** is designed for superior reliability, efficiency, and seamless integration into modern energy systems. With the capability to **connect up to 12 modules in parallel**, it provides scalable solutions tailored to diverse energy requirements. Engineered for long-term performance and backed by a **comprehensive 10-year warranty**, it ensures enduring power security and peace of mind. **Expertly developed in Sri Lanka,** this solution reflects a commitment to innovation and excellence.

$LiFePO_4$ POWER BANK – LFP512130

51.2V 130Ah

Fabricated in Sri Lanka

Expertly engineered and crafted by Sri Lankan engineers, designed, fabricated, and assembled in Sri Lanka for unmatched quality and precision.

10 Year Guarantee

10-year capacity guarantee, ensuring 70% end-of-cycle performance for reliable, long-lasting energy storage.

Expandable

Grow with your needs, offering seamless expansion up to 12 units in parallel.

Model	***LFP512130***
Battery Type	$LiFePO_4$
Cell Grade	A+
Nominal Battery Energy	6.6 kWh
Nominal Cell Capacity	130 Ah
Nominal Voltage	51.2 V
Operating Voltage	44.8-57.6 V
Recommended Charge & Discharge C Rate	0.5 C
Maximum Discharge C rate	1 C
Max. Charge/Discharge Current	100 A
Peak Discharge Current	130 A
Depth of Discharge (DOD)	90%
Net Weight	65 kg
Dimension [W x D x H] (mm)	460 x 160 x 600
Charging Temp. Range	0~45ºC
Discharging Temp. Range	-20~50ºC
Communication	CAN/RS485/RS232
Cycle Life	≥6000 Cycles at STC
Protection Level	IP55
Warranty	10 Years Capacity Guarantee

Notes:

All performance data provided in this datasheet are based on tests conducted under standard test conditions (STC), which include a temperature of 25°C (±2°C), humidity between 45%–85% RH, a charge voltage of 3.65V, a standard charge current of 0.5C (with a maximum of 1C), and a charge cut-off current of 0.05C. The discharge voltage range is 3.1V – 3.65V, with a standard discharge current of 0.5C and a maximum discharge current as per manufacturer specifications, while the cut-off voltage is set between 2.7V – 2.5V. The actual cycle life and capacity retention of the cell may vary depending on deviations from these test conditions, including fluctuations in temperature, charge and discharge rates, depth of discharge, and other environmental factors. Users should consider these variations when designing applications to ensure optimal performance and longevity.

This LFP cell is designed to retain at least 80% of its original capacity after 10 years of operation, provided it is used under recommended conditions. The 80% capacity retention guarantee is based on typical usage patterns, which assume moderate charge/discharge cycles, controlled temperature environments, and adherence to specified voltage and current limits. However, exposure to extreme conditions such as excessive charge/discharge rates, high operating temperatures, or frequent deep discharges may accelerate degradation and reduce the actual lifespan of the cell. Users are advised to follow best practices in battery management to maximize performance and ensure long-term reliability.