

# Energy Storage Battery

Lithium LiFePo4

IMS302 - Rack Mount 5.1 kWh

IMS306 - Rack Mount 9.6kWh

## Why use a Lithium Battery?

Lithium LiFePo4 batteries are the ideal replacement for traditional lead acid batteries. They last longer and recharge faster, saving time, saving money and reducing risk throughout their lifetime.

### Safety:

Lithium LiFePo4 battery chemistry is stable and safe. It is fitted with a Battery Management System (BMS) that actively monitors charge and discharge cycles to protect the cells against overcurrent, overvoltage and thermal runaway.

### Installation:

LiFePo4 batteries are lighter and more compact, making installation easier.

### Performance:

Unlike traditional lead acid batteries, LiFePo4 batteries charge faster with better efficiency and more lifecycles. A longer lifespan means having to replace your batteries less often.

Power For Peace Of Mind



## 10 YEAR WARRANTY



Ideal for Solar / Renewable or UPS Energy Storage



Safe, Stable and Environmentally Friendly



Long Cycle Life = >15 Year Design Life



100% DOD



Constant Power Output



Low Self-Discharge



Fast Charging



Low Maintenance



Intelligent Battery Management System

# Lithium LiFePo4 Energy Storage

## PERFORMANCE SPECIFICATIONS

Model	IMS302 - Rack Mount 5.1 kWh	IMS306 - Rack Mount 9.6kWh
Total Capacity	5.12kWh	9.6kWh
Nominal Voltage	51.2V/DC	48V/DC
Maximum Charge Voltage	58.4V/DC	54.7V/DC
Discharge Cut-off Voltage	46V/DC	46V/DC
Max. Continuous Charge Current	100A - 1C Charge Rating	100A - 0.5C Charge Rating
Max. Continuous Discharge Current	100A - 1C Discharge Rating	100A - 0.5C Discharge Rating
Operating Temperature	Charging: 0~45°C Discharging: -20~60°C Storage: 0~40°C	
Cycles	3000 Cycles @100% D.O.D - 6000 cycles at 80 - 85% D.O.D - remaining 80% Capacity	
Round Trip Efficiency	95%	
Recommended Depth of Discharge	≤85%	
Maximum Depth of Discharge	100% (but not recommended)	
Cooling Method	Natural	
Dimensions (W x D x H)	482 x 400 x 177mm - 4U	482 x 500 x 280mm - 7U
Weight	45kgs	90kgs
Shell Material	Metal	
Parallel Connection	Up to 8 with communication	
Monitoring Data	Over-Charge, Over-Discharge, Over-Current and Short Circuit	
Design Lifespan	15 years >6000 cycles expected life at 80%	
Warranty	10 Years or 6000 cycles for average 80% DoD and Max90% DoD	
Control Interface	RS232, RS485 & CAN Bus for interfacing with compatible Inverters, System controllers and communication for the connection of parallel batteries (parallel batteries must be the same model)	



Contact our friendly and efficient team to discuss an energy solution that fits your lifestyle.

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RENEWABLE ENERGY

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