

## Energy Storage Battery

### Lithium LiFePo4

Rack Mount 5.1 kWh  
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 LiFe Energy storage

Model: Rack Mount

PERFORMANCE SPECIFICATIONS		
Model	IMS303 - 48v 100Ah Rack Mount	IMS306 - 48v 200Ah Rack Mount
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	40V/DC	37.5V/DC
Max. Continuous Charge Current	50A - 2C Charge Rating	
Max. Continuous Discharge Current	100A - 1C 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	482 x 500 x 280mm
Weight	45kgs	90kgs
Shell Material	Metal	
Parallel Connection	Up to 5 sets	
Monitoring Data	Over-Charge, Over-Discharge, Over-Current and Short Circuit	
Design Lifespan	16 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)	



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