magneto™
RENEWABLE ENERGY

Energy Storage Battery

Lithium LiFePo4

IMS304 - 2.56kWh Wall Mount
IMS303 - 5.12kWh Wall Mount
IMS305 - 7.56kWh Wall Mount

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.

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

Power For Peace Of Mind

Lithium LiFe Energy storage

Model: Wall Mount

PERFORMANCE SPECIFICATIONS

Model	IMS304 - 24V 100Ah Wall Mount	IMS303 - 48V 100Ah Wall Mount	IMS305 - 48V 150Ah Wall Mount
Total Capacity	2.56kWh	5.12kWh	7.5kWh
Nominal Voltage	25.6V/DC	51.2V/DC	51.2V/DC
Maximum Charge Voltage	25.6V/DC	58.4V/DC	58.4V/DC
Discharge Cut-off Voltage	23V	46V	46V
Max. Continuous Charge Current	50A - 0.5C	100A - 1C	100A - 1C
Max. Continuous Discharge Current	50A - 0.5C	100A - 1C	100A - 1C
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)	400 x 110 x 520mm	360 x 140 x 570mm	860 x 140 x 541mm
Weight	25kgs	47kgs	65kgs
Shell Material	Metal		
Parallel Connection	Up to 8 with communication		
Monitoring Data	Over-Charge, Over-Discharge, Over-Current and Short Circuit		
Design Lifespan	16 years > 6000 cycles expected at 80%		
Warranty	10 years or 6000 cycles for average 80% DoD and Max 90% DoD		
Control Interface	RS232, RS485 and 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.

magneto™ RENEWABLE ENERGY

CALL: 087 820 8111
WEB: www.magnetoenergy.co.za
EMAIL: info@magnetoenergy.co.za