



ENERGY
STORAGE SYSTEM
LITHIUM ION BATTERY
HOME ENERGY STORAGE SYSTEM (HESS)





POWER ENDLESS

with **more charge cycles** and
low discharge rate, keep the Energy longer

About Us

Ipower is one of India's most trusted names in the green energy segment. Our IMS-certified manufacturing facility in Kundli, Haryana, spans 50,000 sq. ft. and houses a government-recognized R&D center. We manufacture advanced Lithium-ion Batteries for 2-wheelers, 3-wheelers, Telecom applications, Energy Storage Systems (ESS) and more, delivering reliable, high-performance solutions across industries. We provide BMS with IOT connectivity which enables feature like remote monitoring, geo-fencing, and smart control. With rigorous processes, global standards, and a dedicated team, Ipower is committed to powering a sustainable future.

1st India's first LMFP
Battery Manufacturer

30+ Years of Experience
in Battery Industry

50+ Service Centres
across the Nation

50K+ Sq Ft
Factory Area

1.2 GMH Annual
Production Capacity

22+ AIS156 (Phase 2)
Approved Batteries

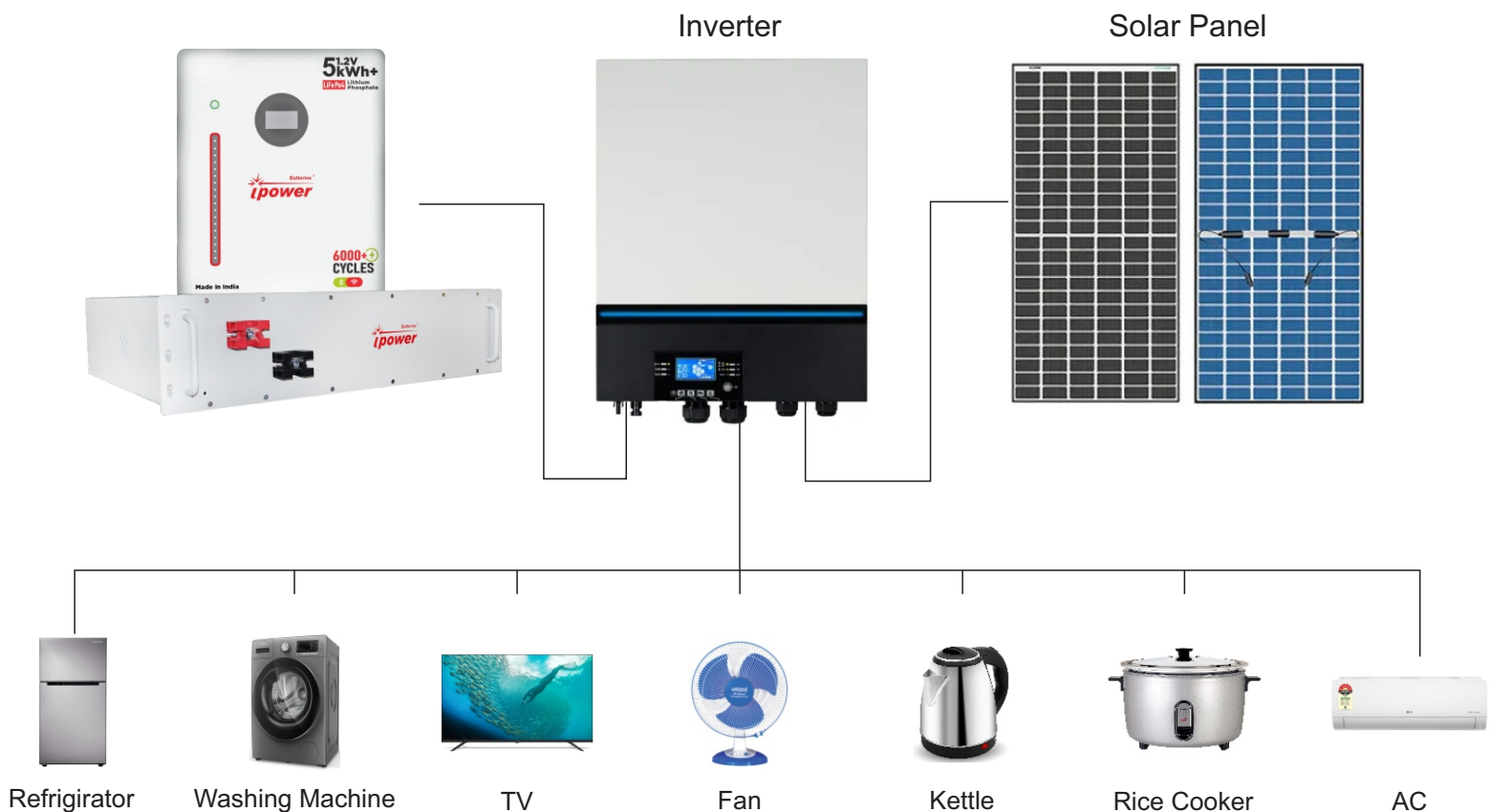
HESS RANGE

LITHIUM PHOSPHATE **LiFePO₄**

Ipower Energy Storage Battery range is built to deliver dependable, intelligent, and scalable energy storage for every need—from homes and offices to industrial plants and telecom infrastructure. All systems are powered by LiFePO₄ technology for maximum safety, performance, and lifespan.

Our Complete ESS Range

1. Wall-Mounted ESS – Space-saving, elegant, and ideal for residential and small commercial setups.
2. Floor - Mounted ESS – High-capacity models with mobility features for flexible deployment.
3. Rack-Type ESS – Modular, high-density systems perfect for telecom, UPS, solar, and industrial integration.



HESS RANGE - WALL MOUNTED

Product Specifications

Range	25.6V		51.2V
Model	25.6V100Ah	25.6V230Ah	51.2V100Ah
Array Mode	8S	16S	16S
Nominal Energy (kWh)	2.5	5.8	5.1
Nominal Voltage (V)	25.6		51.2
Charge Voltage (V)	29.2		58.4
Discharge Cut-off Voltage (V)	21	46	42
Standard Charging Current(A)	20	46	20
Max. Continuous Charging Current (A)	100		
Max. Continuous Discharging Current (A)	100		
Cycle Life	6000 Cycles @80% DOD @25°C @0.2C/ 0.2C		
Communication Mode	RS485/CAN, RS232, RS485/RS485		
Parallel Connection	Yes, upto 15 units		
Operating Temp	Charging: 0~60°C; Discharging: -10 ~65		
Size(LxWxH) mm	440x170x350	560x470x170	560x470x170
Net Weight (kg)	~23	~45	~41
Gross Weight (kg)	~25	~47	~43
Warranty	5 Years		
Altitude	≤4000m		
Humidity	<90%RH		
Shelf Temperature	10°C~60		
Design Life	10+ Years at 25°C/77		

Introduction

The **ipower's home energy storage battery** is designed for inverter applications. This user manual provides detailed information about the product's features and technical specifications to ensure safe and efficient operation.

Features

- Wall Mountes Design
- Inverter Compatibility
- Communication Protocol Support
- Scalable Capacity
- Easy Installation
- Built-in Intelligent BMS
- Safe LiFePO₄ Chemistry



HESS RANGE - FLOOR MOUNTED

Product Specifications

Range	51.2V	51.2V
Model	51.2V230Ah	51.2V280Ah
Array Mode	16S	16S
Nominal Energy (kWh)	11.7	14.3
Nominal Voltage (V)	51.2	51.2
Charge Voltage (V)	58.4	58.4
Discharge Cut-off Voltage (V)	42	42
Standard Charging Current(A)	46	56
Max. Continuous Charging Current (A)	200	200
Max. Continuous Discharging Current (A)	200	200
Cycle Life	6000 Cycles @80% DOD @25°C @0.2C/ 0.2C	6000 Cycles @80% DOD @25°C @0.5C/ 0.5C
Communication Mode	RS485/ CAN, RS232, RS485/ RS485	RS485/ CAN, RS232, RS485/ RS485
Parallel Connection	Yes, upto 15 units	Yes, upto 15 units
Operating Temp	Charging: 0~60°C; Discharging: -10 ~65	Charging: 0~60°C; Discharging: -10°C~65°C
Size(LxWxH) mm	670x485x244	750x580x279
Net Weight (kg)	~93	~113
Gross Weight (kg)	~106	~128
Warranty	5 Years	5 Years
Altitude	≤4000m	≤4000m
Humidity	<90%RH	<90%RH
Shelf Temperature	10°C~60	10°C~60°C
Design Life	10+ Years at 25°C/ 77	10+ Years at 25°C/ 77°F

Introduction

The **ipower's home energy storage battery** is designed for inverter applications. This user manual provides detailed information about the product's features and technical specifications to ensure safe and efficient operation.

Features

- Wall-Mounted Design
- Inverter Compatibility
- Communication Protocol Support
- Scalable Capacity
- Easy Installation
- Built-in Intelligent BMS
- Safe LiFePO4 Chemistry



HESS RANGE - RACK MOUNTED

Product Specifications

Model	51.2V100Ah	51.2V400Ah
Array Mode	16S	16S x4 (Module)
Nominal Energy (kWh)	5.1	20.0
Nominal Voltage (V)	51.2	51.2
Charge Voltage (V)	58.4	58.4
Discharge Cut-off Voltage (V)	42	42
Standard Charging Current(A)	20	20x4
Max. Continuous Charging Current (A)	100	100x4
Max. Continuous Discharging Current (A)	100	100x4
Cycle Life		
Communication Mode	RS485/CAN	RS485/CAN
Operating Temp	Charging: 0~60°C; Discharging: -10°C~65°C	Charging: 0~60°C; Discharging: -10°C~65°C
Size(LxWxH) mm	520x495x175	600x600x1000 (with cabinet)
Net Weight (kg)	~44	~200
Gross Weight (kg)	~46	~210
Warranty	5 Years	5 Years
Altitude	≤4000m	≤4000m
Humidity	<90%RH	<90%RH
Shelf Temperature	10°C~60°C	10°C~60°C
Design Life	10+ Years at 25°C/77°F	10+ Years at 25°C/77°F

Introduction

The **ipower’s lithium phosphate energy storage battery** is designed for inverter applications. This user manual provides detailed information about the product’s features and technical specifications to ensure safe and efficient operation.

Application

- Telecom
- UPS
- Emergency Light
- Solar System
- Wind Power

Features

- Wall-Mounted Design
- Inverter Compatibility
- Communication Protocol Support
- Scalable Capacity
- Easy Installation
- Built-in Intelligent BMS
- Safe LiFePO4 Chemistry





Ipower Batteries Pvt. Ltd.

Head Office : Plot No-82, HSIIDC Industrial Area,
Sec-53, Kundli, Sonipat, Haryana, India 131028

Branch Office : M-6 Office Balram House, Karampura Delhi, West Delhi - 110015

Phone: +91 98992 01797 | **Email:** support@ipowerbatteries.in

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@ipowerbatteries



www.ipowerbatteries.in