

MERITSUN[®]

The Best Power In The Sun

High Quality 12V LiFePO4 Battery Pack Specifications



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www.meritsunpower.com

Company Profile

MeritSun is a professional LiFePo4 battery manufacturer since 1999, focus on alternative smart energy storage application. We produce Cells, house made BMS ,module and integrated system solutions. 20 years, we do only one thing, Energy Storage Batteries. We proud of excellency : 100+R&D teams, 1368 employees , 48 fully automatic productions lines ,150,000 square meters factory.

MeritSun's vision is to make Solar ESS Lifepo4 battery accessible to the household people all around the world and help people save energy bills, and save the world from global warming.

MeritSun, The Best Power in the SUN.

Product Advantages



Wider
Temperature
Range:-20~65°C



Smart Elite
BMS, Super
Safety Design



Light Weight &
Compact Design,
Maintenance-free



Super
Graphene
Lithium Cells



Heavy-Duty
Long Cycle
Life @1C



Drop-in replacement
of SLA batteries



Product Specification (Conventional model)

Battery Model	LFP6-12	LFP12-12	LFP18-12	LFP24-12	LFP30-12
Nominal Voltage (V)	12.8	12.8	12.8	12.8	12.8
Nominal Capacity	6	12	18	24	30
Charge Voltage	14.6V	14.6V	14.6V	14.6V	14.6V
Dimension	151*65*94mm	151*99*99 mm	181*77*170 mm	181*77*170 mm	174*165*125 mm
Weight	1.0kg	1.5kg	2.2kg	3.0kg	3.8kg
Discharge cut-off voltage	10V	10V	10V	10V	10V
Standard Charge Current	1.2A	2.4A	3.6A	4.8A	6A
Max. Charge Current	6A	10A	20A	20A	30A
Max. Continues Discharge current	6A	10A	20A	20A	30A
Enclosure Protection Rating	IP65	IP65	IP65	IP65	IP65

Product Specification (Conventional model)

Battery Model	LFP36-12	LFP42-12	LFP50-12	LFP100-12
Nominal Voltage (V)	12.8	12.8	12.8	12.8
Nominal Capacity	36	42	50	100
Charge Voltage	14.6V	14.6V	14.6V	14.6V
Dimension	195*166*170mm	195*166*170 mm	229*138*208mm	330*172*215 mm
Weight	4.5kg	4.5kg	6.5kg	10.5kg
Discharge cut-off voltage	10V	10V	10V	10V
Standard Charge Current	7.2A	8.4A	10A	20A
Max. Charge Current	30A	40A	50A	100A
Max. Continues Discharge current	30A	40A	50A	100A
Enclosure Protection Rating	IP65	IP65	IP65	IP65

Product Specification (Conventional model)

Battery Model	LFP150-12	LFP200-12	LFP300-12	LFP400-12
Nominal Voltage (V)	12.8	12.8	12.8	12.8
Nominal Capacity	150	200	300	400
Charge Voltage	14.6V	14.6V	14.6V	14.6V
Dimension	330*172*215 mm	483*170*240 mm	522*240*218 mm	520*269*220 mm
Weight	19kg	23kg	33kg	41kg
Discharge cut-off voltage	10V	10V	10V	10V
Standard Charge Current	30A	40A	60A	80A
Max. Charge Current	150A	150A	150A	200A
Max. Continues Discharge current	150A	150A	150A	200A
Enclosure Protection Rating	IP65	IP65	IP65	IP65

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MeritSun Smart LCD Display LiFePO4 Battery

Real-time monitoring of battery soc, voltage, temperature,
easy to grasp battery status, safe and worry-free



Product Specification (LCD model)

Battery Model	LFP6-12 L	LFP12-12 L	LFP18-12 L	LFP24-12 L	LFP30-12 L
Nominal Voltage (V)	12.8	12.8	12.8	12.8	12.8
Nominal Capacity	6	12	18	24	30
Charge Voltage	14.6V	14.6V	14.6V	14.6V	14.6V
Dimension	151*65*94mm	151*99*99 mm	181*77*170 mm	181*77*170 mm	174*165*125 mm
Weight	1.0kg	1.5kg	2.2kg	3.0kg	3.8kg
Discharge cut-off voltage	10V	10V	10V	10V	10V
Standard Charge Current	1.2A	2.4A	3.6A	4.8A	6A
Max. Charge Current	6A	10A	20A	20A	30A
Max. Continues Discharge current	6A	10A	20A	20A	30A
Enclosure Protection Rating	IP65	IP65	IP65	IP65	IP65

Product Specification (LCD model)

Battery Model	LFP36-12 L	LFP42-12 L	LFP50-12 L	LFP100-12 L
Nominal Voltage (V)	12.8	12.8	12.8	12.8
Nominal Capacity	36	42	50	100
Charge Voltage	14.6V	14.6V	14.6V	14.6V
Dimension	195*166*170mm	195*166*170 mm	229*138*208mm	330*172*215 mm
Weight	4.5kg	4.5kg	6.5kg	10.5kg
Discharge cut-off voltage	10V	10V	10V	10V
Standard Charge Current	7.2A	8.4A	10A	20A
Max. Charge Current	30A	40A	50A	100A
Max. Continues Discharge current	30A	40A	50A	100A
Enclosure Protection Rating	IP65	IP65	IP65	IP65

Product Specification (LCD model)

Battery Model	LFP150-12 L	LFP200-12 L	LFP300-12 L	LFP400-12 L
Nominal Voltage (V)	12.8	12.8	12.8	12.8
Nominal Capacity	150	200	300	400
Charge Voltage	14.6V	14.6V	14.6V	14.6V
Dimension	330*172*215 mm	483*170*240 mm	522*240*218 mm	520*269*220 mm
Weight	19kg	23kg	33kg	41kg
Discharge cut-off voltage	10V	10V	10V	10V
Standard Charge Current	30A	40A	60A	80A
Max. Charge Current	150A	150A	150A	200A
Max. Continues Discharge current	150A	150A	150A	200A
Enclosure Protection Rating	IP65	IP65	IP65	IP65

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MeritSun Bluetooth Access LiFePO4 Battery

App Intelligent Control Built-in Bluetooth function allows you to read the battery status at any time, real-time monitoring of battery SOC, voltage, capacity, status, healthy, current, temperature, control the battery status anytime, anywhere, safe and worry-free.



Product Specification (Bluetooth model)

Battery Model	LFP100-12 B	LFP200-12 B	LFP300-12 B	LFP400-12 B
Nominal Voltage (V)	12.8	12.8	12.8	12.8
Nominal Capacity	100	200	300	400
Charge Voltage	14.6V	14.6V	14.6V	14.6V
Dimension	330*172*215 mm	483*170*240 mm	522*240*218 mm	520*269*220 mm
Weight	10.5kg	23kg	33kg	41kg
Discharge cut-off voltage	10V	10V	10V	10V
Standard Charge Current	20A	40A	60A	80A
Max. Charge Current	100A	150A	150A	200A
Max. Continues Discharge current	100A	150A	150A	200A
Enclosure Protection Rating	IP65	IP65	IP65	IP65

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MeritSun Low Temperature Heat LiFePO4 Battery with Bluetooth

Built-in the unique heating film technology which design and house-made by Meritsun professional engineer team, while the temperature is below 0 degrees, the film will heat the battery till 10 degrees, then the battery could start to charge and use as normal.



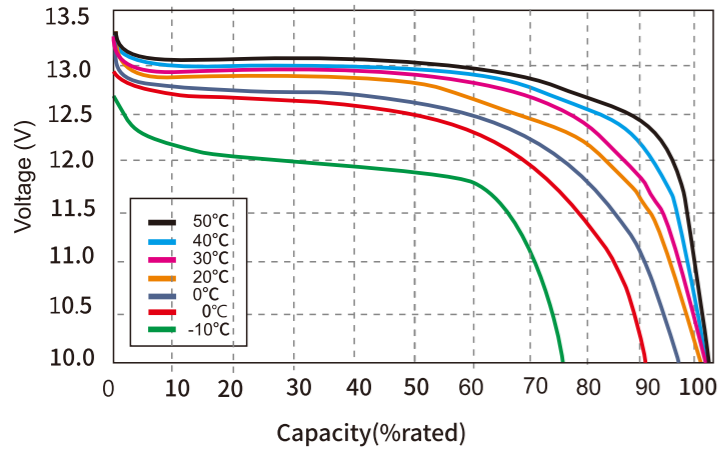
Product Specification (Low temperature heat model)

Battery Model	LFP100-12 BH	LFP200-12 BH	LFP300-12 BH	LFP400-12 BH
Nominal Voltage (V)	12.8	12.8	12.8	12.8
Nominal Capacity	100	200	300	400
Charge Voltage	14.6V	14.6V	14.6V	14.6V
Dimension	330*172*215 mm	483*170*240 mm	522*240*218 mm	520*269*220 mm
Weight	10.5kg	23kg	33kg	41kg
Discharge cut-off voltage	10V	10V	10V	10V
Standard Charge Current	20A	40A	60A	80A
Max. Charge Current	100A	150A	150A	200A
Max. Continues Discharge current	100A	150A	150A	200A
Enclosure Protection Rating	IP65	IP65	IP65	IP65

Characteristic curve

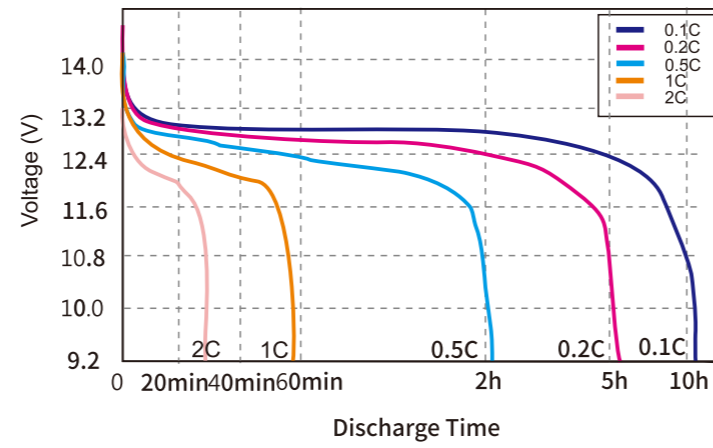
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



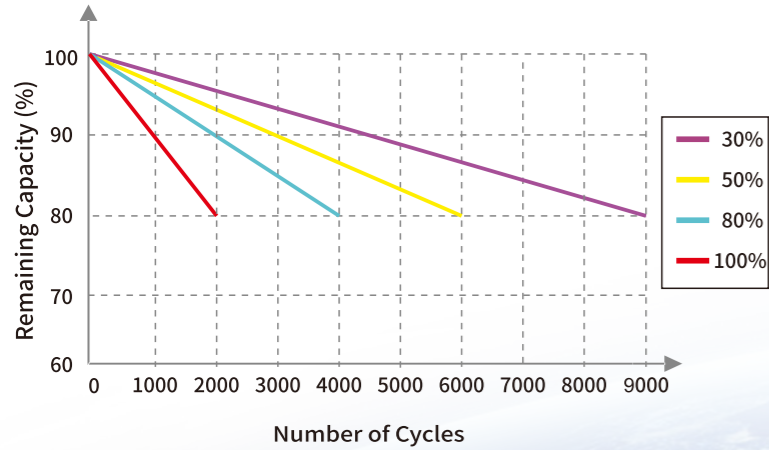
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



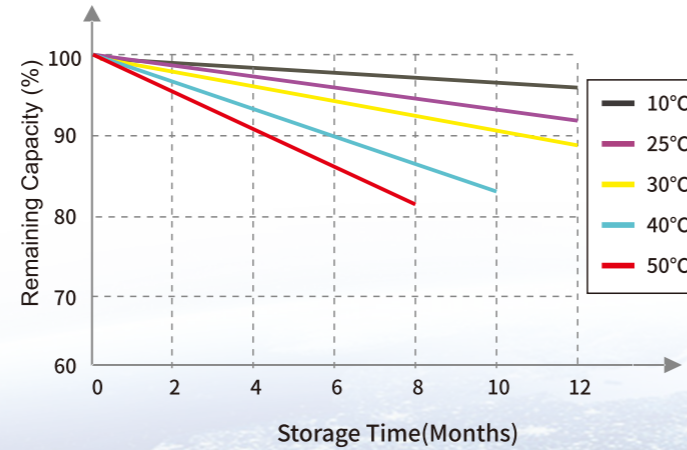
Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



Applications



Boat



Golf cart



Motorboat



RV



Electric wheelchair



Solar street light