

# LITHIUM IRON PHOSPHATE BATTERY

May the power be with you

**MUST®**

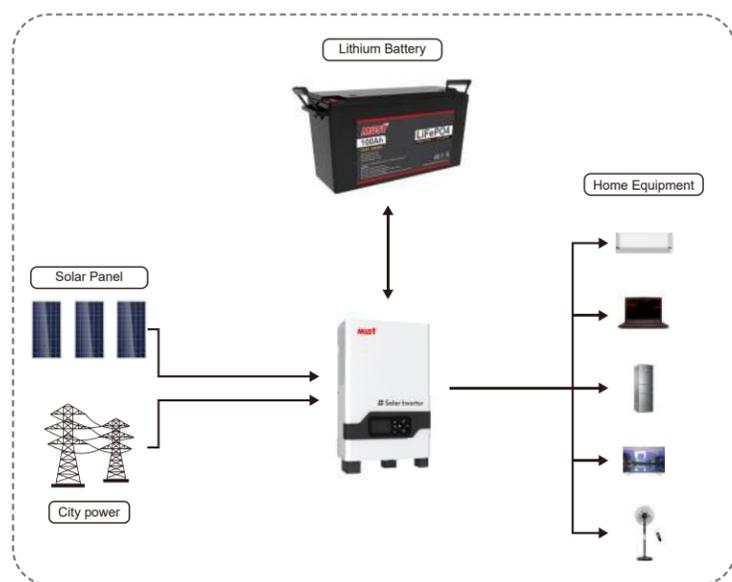


## LP1500 Series

The Must LP1500 SERIES LiFePO4 battery is fit for E-mobility, Energy Storage System, Defense & Security, telecom outdoor applications, renewable energy systems, and other harsh environment applications.

\* Custom capacity is acceptable.

## System Diagram



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**High cycle life**  
 4000 cycles @80% DoD for effectively lower total of ownership cost.
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**Longer service life**  
 Low maintenance batteries with stable chemistry.
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**Built in circuit protection**  
 Battery Management System (BMS) is incorporated against abuse.
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**Better storage**  
 Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.
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**Quickly recharge**  
 Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.
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**Extreme heat tolerance**  
 Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.
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**Lightweight**  
 Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.
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**Function**  
 Support parallel operation

# LITHIUM IRON PHOSPHATE BATTERY LP1500 SERIES

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## Specifications

MODEL		LP15-1250	LP15-12100	LP15-12200	LP15-24100	LP15-24120	LP15-24200	
LiFePO4 Battery	Nominal Voltage	12.8V			25.6V			
	Nominal Capacity	50Ah	100Ah	200Ah	100Ah	120Ah	200Ah	
	Nominal Energy	640Wh	1280Wh	2560Wh	2560Wh	3072Wh	5120Wh	
	Life Cycles	4000+ (80% DoD for effectively lower total of ownership cost)						
	Recommended Charge Voltage	14.6V			29.2V			
	Recommended Charge Current	20A						
	End Of Discharge Voltage	10V			20V			
	Standard Method	Charge	10A	20A	40A	20A	24A	40A
		Discharge	25A	50A	100A	50A	60A	100A
	Maximum Continuous Current	Charge	25A	50A	100A	50A	60A	100A
		Discharge	50A	100A	100A	100A	100A	100A
	BMS Cut-Off Voltage	Charge	15.4 V (3.85V/Cell)			30.8 V (3.85V/Cell)		
		Discharge	9.2 V (2s) (2.3V/Cell)			18.4 V (2s) (2.3V/Cell)		
	Temperature	Charge	-4 ~ 113 °F (0 ~ 45°C)					
		Discharge	-4 ~ 131 °F (-20 ~ 55 °C)					
Storage Temperature	23~95 °F (-5~35°C)							
Shipment voltage	≥12.8V			≥25.6V				
Case Material	ABS+PC							
Dimension (L x W x H)	260x167x210mm 10.3 x 6.6 x 8.3"	339x185x218mm 13.4 x 7.3 x 8.6"	502x186x243mm 19.8 x 7.3 x 9.6"	522x240x218mm 20.6 x 9.5 x 8.6"	522x240x218mm 20.6 x 9.5 x 8.6"	522x240x218mm 20.6 x 9.5 x 8.6"		
Approx. Weight	16.53 lbs (7.5 kg)	26.5 lbs (12 kg)	50.7 lbs (23 kg)	49.6 lbs (22.5 kg)	59.5 lbs (27 kg)	99.2 lbs (45 kg)		
Charge retention and capacity recovery capability	Standard charge the battery, and then put aside at room temperature for 28d or 55 °C for 7d, Charge retention rate≥90%, Recovery rate of charge≥90							

The technical specifications of this document are subject to change without any notice