

LITHIUM IRON PHOSPHATE BATTERY

May the power be with you

MUST

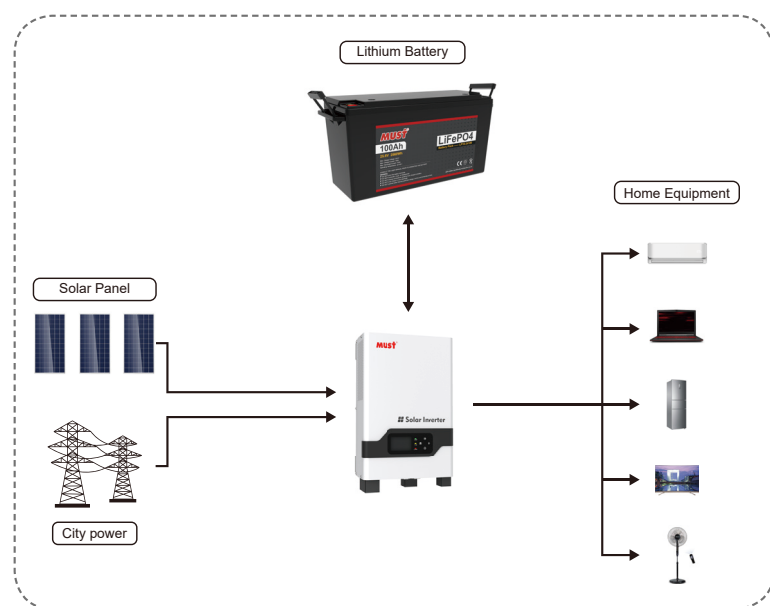


LP1500 Series

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



High cycle life

4000 cycles @80% DoD for effectively lower total of ownership cost.



Longer service life

Low maintenance batteries with stable chemistry.



Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



Better storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



Lightweight

Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.



Function

Support parallel operation

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Specifications

MODEL		LP15-1250	LP15-12100	LP15-12200	LP15-24100	LP15-24120	LP15-24125	LP15-24200	
LiFePO4 Battery	Nominal voltage	12.8V			25.6V				
	Nominal Capacity	50Ah	100Ah	200Ah	100Ah	120Ah	125Ah	200Ah	
	Nominal energy	640Wh	1280Wh	2560Wh	2560Wh	3072Wh	3200Wh	5120Wh	
	Life Cycles	4000+ (80% DoD for effectively lower total of ownership cost)							
	Recommended Charge Voltage	14.6V			29.2V				
	Recommended Charge Current	20.0A							
	End of discharge voltage	10.0V			20.0V				
	Standard method	Charge	10.0A	20.0A	40.0A	20.0A	24.0A	25.0A	40.0A
		Discharge	25.0A	50.0A	100.0A	50.0A	60.0A	62.0A	100.0A
	Maximum continuous current	Charge	50.0A	50A/100A	200.0A	100.0A	120.0A	125.0A	100.0A/200.0A
		Discharge	50.0A	50A/100A	200.0A	100.0A	120.0A	125.0A	100.0A/200.0A
	BMS Cut-Off Voltage	Charge	<15.6 V (3.9V/Cell)			<31.2 V (3.9V/Cell)			
		Discharge	>8.0 V (2s) (2.0V/Cell)			>16.0 V (2s) (2.0V/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)	228 x 144 x 210 mm 9.0 x 5.7 x 8.3"	320 x 172 x 215 mm 12.6 x 6.7 x 8.5"	483 x 170 x 240 mm 19.0 x 6.7 x 9.4"	483 x 170 x 240 mm 19.0 x 6.7 x 9.4"	345 x 190 x 245 mm 13.6 x 7.5 x 9.6	522 x 240 x 218 mm 20.6 x 9.5 x 8.6	522 x 240 x 218 mm 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)	61.7 lbs (28kg)	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