

# LITHIUM IRON PHOSPHATE BATTERY

**MUST**

May the power be with you

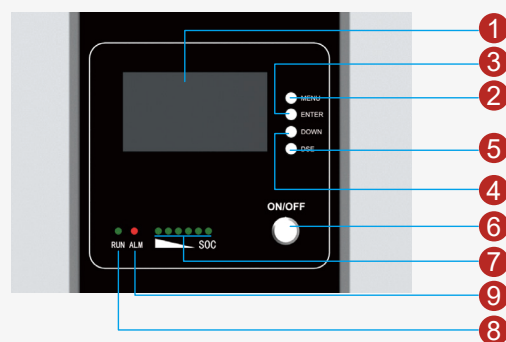


## LP1600 Series

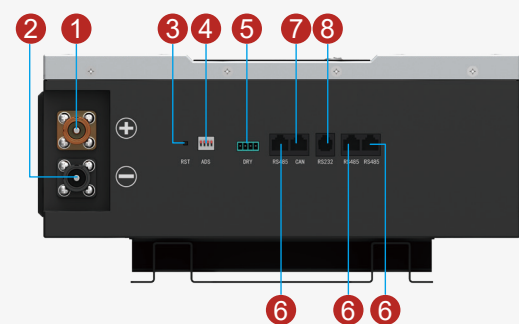
MUST wall mounted Lithium battery (LiFePO4 Battery) solutions are highly integrated, deep cycle backup power solutions for your solar home energy storage system. With rich experience and advanced techniques, the product has the features of the fashionable design, high energy, high power density, long service life, and easiness of installation and expansion.

\* Custom capacity is acceptable.

## Pic of Input & Output Port



1. LCD display
2. Menu buttons
3. Enter buttons
4. Down buttons
5. DES buttons
6. Switch on/off
7. SOC indicator
8. RUN indicator
9. Alarm indicator



1. BAT+
2. BAT-
3. RST port
4. ADS switch
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port

# LITHIUM IRON PHOSPHATE BATTERY LP1600 SERIES

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## Specifications

MODEL	LP16-4850	LP16-48100	LP16-48200	
Nominal voltage	51.2V			
Nominal Capacity	50Ah	100Ah	200Ah	
Nominal energy	2560Wh	5120Wh	10240Wh	
Life Cycles	4000+ (80% DoD for effectively lower total of ownership cost)			
Recommended Charge Voltage	57.6V			
Recommended Charge Current	20.0A			
End of discharge voltage	44.0V			
Standard method	Charge	10.0A	20.0A	40.0A
	Discharge	25.0A	50.0A	100.0A
Maximum continuous current	Charge	50.0A	100.0A	100.0A
	Discharge	50.0A	100.0A	100.0A
BMS Cut-Off Voltage	Charge	<58.4 V (3.65V/Cell)		
	Discharge	>32.0V (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	≥51.2V			
Module Parallel	Up to 4 units			
Communication	CAN2.0/RS232/RS485			
Case Material	SPPC			
Dimension (L x W x H)	525 x 350 x 135 mm 20.7 x 13.8 x 5.3"	580 x 400 x 145mm 22.8 x 15.7 x 5.7"	580 x 420 x 230 mm 22.83 x 16.54 x 9.06"	
Approx. Weight	50.71lbs (23 kg)	97lbs (44kgs)	180.78 lbs (82 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			



**High cycle life**  
4000 cycles @80% DoD for effectively lower total of ownership cost.



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



**Longer service life**  
Low maintenance batteries with stable chemistry.



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



**Built in circuit protection**  
Battery Management System (BMS) is incorporated against abuse.



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



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



**Function**  
Support parallel operation

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