MUST®
Solar Power System

LITHIUM IRON PHOSPHATE (LiFePO4) BATTERY

LP1600 Series



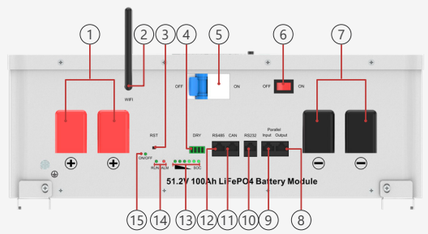
2.56~16.384KWH | WIFI

The LP1600 Series offers a versatile and reliable power solution. Combine up to 40 units for energy capacities ranging from 2560Wh to 16384Wh. With WiFi Remote Monitoring, stay connected and in control. Whether it's wall-mounted convenience, stacked-mounting (up to 5 units) for space efficiency, or rack-mounted for industrial power management, this series offers seamless adaptability.

UN38.3

- 3-in-1: Wall-mounted, Stacked-mounted, Rack-mounted(optional)
- Vertical-mounted only for LP16-48300 & LP16-48320
- Large capacity, high power output
- Safest lithium iron phosphate battery cell with high energy density
- Modular design: supports up to 40 units in parallel
- Support CAN & RS485 communication with mainstream inverters
- Local monitoring via LCD monitor
- Built-in WiFi/Bluetooth Module

Back panel description



1. BAT+
2. WiFi/ Bluetooth antenna
3. RST port
4. DRY port
5. Air circuit breaker
6. Start buttons
7. BAT-
8. Parallel output port
9. Parallel input port
10. RS232 communication port
11. CAN communication port
12. RS485 communication port
13. SOC indicator
14. Status indicator
15. ON/OFF indicator

Installation method



Technical Data		LP16-24100	LP16-24200	LP16-24300	LP16-24320	LP16-48100	LP16-48200	LP16-48300	LP16-48320
Nominal Voltage		25.6V				51.2V			
Nominal Capacity		100Ah	200Ah	300Ah	320Ah	100Ah	200Ah	300Ah	320Ah
Nominal energy		2560Wh	5120Wh	7680Wh	8192Wh	5120Wh	10240Wh	15360Wh	16384Wh
Max. output power		2.5KW	3.5KW	5KW	5KW	5KW	7.5KW	10KW	10KW
Life Cycles		≥6000(25°C+2°C,80%DOD,70%EOL)							
Recommended Charge Voltage		29.2V				58.4V			
Recommended Charge Current		20A	40A	60A	60A	20A	40A	60A	60A
End Of Discharge Voltage		22V				44V			
Standard Method	Charge	20A	40A	60A	60A	20A	40A	60A	60A
	Discharge	50A	100A	150A	150A	50A	100A	150A	100A
Maximum Continuous Current	Charge	100A	150A	200A	200A	100A	150A	200A	200A
	Discharge	100A	150A	200A	200A	100A	150A	200A	200A
BMS Cut-Off Voltage	Charge	29.2 V (3.65V/Cell)				58.4 V (3.65V/Cell)			
	Discharge	22.0V (2s) (2.75V/Cell)				44.0V (2.75V/Cell)			
Temperature	Charge	0~55°C							
	Discharge	-20~60°C							
Storage Temperature		-5~35°C							
Shipment Voltage		≥25.6V				≥51.2V			
Safety Function		Over-charge, Over-discharge, Over-current, Low/High-temperature, Short-circuit Protections							
Module Parallel		Up to 40 units							
Communication		CAN2.0/RS232/RS485							
IP Protection level		IP21							
Case Material		SPCC							
Installation Mode		Wall-mounted, Stacked-mounted, Rack-mounted(optional)						Vertical-mounted	
Machine Dimension (W*H*D) (mm)		442*485.5*177	442*486.5*250	442*495*230	442*495*230	442*625.5*177	442*686.5*250	490*923*265	
Package Dimension (W*H*D) (mm)	carton box	547*227*557	547*300*557	530*305*615	530*305*615	557*227*688	560*305*750	/	
	wooden box	/	/	/	/	/	569*405*759	1000*565*450	
N.W (kg)		27	45	58	58	45	81	117	
G.W (kg)	carton box	29	49	71	71	79	86	/	
	wooden box	/	/	/	/	/	97	137	

* Variations in dimensions and weights may occur due to production batches.

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%
Warranty	5 years
Certification & Standards	CE-EMC (EN 61000-6-3: 2007+A1: 2011+AC: 2012 EN IEC 61000-6-1: 2019) IEC62619-1:2018; IEC62619:2022; IEC62619:2017; UN38.3/ MSDS

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