MUST®
Solar Power System

LITHIUM IRON PHOSPHATE (LiFePO4) BATTERY

LP1600 Series

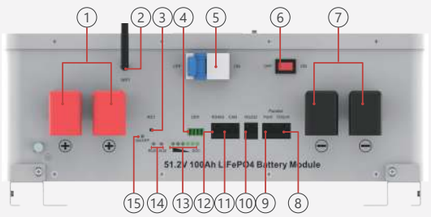
2.56~15.36KWH | WIFI

The LP1600 Series offers a versatile and reliable power solution. Combine up to 15 units for energy capacities ranging from 2560Wh to 15360Wh. 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.



- 3-in-1: Wall-mounted, Stacked-mounted, Rack-mounted(optional)
- Vertical-mounted only for LP16-48300
- Large capacity, high power output
- Safest lithium iron phosphate battery cell with high energy density
- Modular design: supports up to 15 units in parallel
- Support CAN & RS485 communication with mainstream inverters
- Local monitoring via LCD monitor
- Built-in WiFi Smart BMS Module

Back panel description



1. BAT+
2. WiFi
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	LP16-48100	LP16-48200	LP16-48300
Nominal Voltage		25.6V		51.2V		
Nominal Capacity		100Ah	200Ah	100Ah	200Ah	300Ah
Nominal energy		2560Wh	5120Wh	5120Wh	10240Wh	15360Wh
Max. output power		2.5KW	3.5KW	5KW	7.5KW	10KW
Life Cycles		6000 cycles @ 80% DOD, 25°C				
Recommended Charge Voltage		29.2V		58.4V		
Recommended Charge Current		20A	40A	20A	40A	60A
End Of Discharge Voltage		22V		44V		
Standard Method	Charge	20A	40A	20A	40A	60A
	Discharge	50A	100A	50A	100A	150A
Maximum Continuous Current	Charge	100A	150A	100A	150A	200A
	Discharge	100A	150A	100A	150A	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	0~50°C				
	Discharge	-20~60°C				
Storage Temperature		-5~35°C				
Safety Function		Over-charge, Over-discharge, Over-current, Low/High-temperature, Short-circuit Protections				
Module Parallel		Up to 15 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*625.5*177	442*686.5*250	/
Package Dimension (W*H*D) (mm)	carton box	557*227*547	557*300*547	688*227*557	non	/
	wooden box	555*340*565	555*410*565	696*335*565	759*391*569	/
N.W (kg)		27	44	45	80	/
G.W (kg)	carton box	30	48	48	non	/
	wooden box	40	57	58	97	/
* 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