LITHIUM IRON PHOSPHATE (LIFEPO4) BATTERY

LP1600 Series

2.56~30.72KWH | WIFI | Bluetooth



High energy capacity

Scalable from 2.56kWh to 30.72kWh for diverse needs

Ultimate Installation Flexibility

Wall, stack, rack, or wheeled floor—fit your space, your way

High power, stable performance

Consistent energy output for residential and industrial systems

Modular & expandable

Connect up to 15 units in parallel with ease

Smart connectivity

Built-in WiFi/Bluetooth for real-time remote monitoring

Seamless integration

Supports CAN & RS485 communication with major inverters

MUST® × ENERGYFY

MAIN PARAMETER

Model		LP16-24100	LP16-24200	LP16-24300	LP16-48100	LP16-48200	LP16-48300	LP16-48314	LP16-48410	LP16-48600
Battery Chemistry		$LiFePO_4$								
Rated Capacity		100 Ah	200 Ah	300 Ah	100 Ah	200 Ah	300 Ah	314 Ah	410 Ah	600 Ah
Scalability		Max. 15 pcs in parallel								
Nominal Voltage		25.6V			51.2V					
Operating Voltage		22.4 V ~ 28.8 V			44.8 V ~ 57.6 V					
Nominal Energy		2.56 kWh	5.12 kWh	7.68 kWh	5.12 kWh	10.24 kWh	15.36 kWh	16 kWh	21 kWh	30.72 kWh
Charge Current	Recommended	50A	100A	150A	50A	100A	150A	150A	150A	150A
	Max. Continuous	100 A	150 A	200 A	100 A	150 A	200 A	200 A	200 A	200 A
	Peak	110 A (3 sec)	160 A (3 sec)	210 A (3 sec)	110 A (3 sec)	160 A (3 sec)	210 A (3 sec)	210 A (3 sec)	210 A (3 sec)	210 A (3 sec)
Discharge Current	Recommended	50A	100A	150A	50A	100A	150A	150A	150A	150A
	Max. Continuous	120 A	150 A	200 A	120 A	150 A	200 A	200 A	200 A	200 A
	Peak	150 A (10 sec)	160 A (3 sec)	210 A (3 sec)	150 A (10 sec)	160 A (3 sec)	210 A (3 sec)	210 A (3 sec)	210 A (3 sec)	210 A (3 sec)

OTHER PARAMETERS

Model		LP16-24100	LP16-24200	LP16-24300	LP16-48100	LP16-48200	LP16-48300	LP16-48314	LP16-48410	LP16-48600
Recommend Depth of Discharge		80% DoD								
Dimension (W × D × H,mm) (Without hanging board)		486*442 *152	486*442 *225	533*442 *225	626*442 *152	686*442 *225	490*264 *923	490*264 *923	600*264 *1090	744*264 *1090
Package Dimension (W × D × H,mm)	carton box	547*557 *227	547*557 *300	530*615 *305	557*688 *227	560*750 *305	/		/	/
	wooden box	/	/	/	/	569*759 *405	1000*450 *565		1194*440 *701	1225*400 *870
Net Weight Approximate (kg)		26	45	57	44	80	113.5	115	170	222
G.W (kg)	carton box	29	49	71	79	86	/		/	/
	wooden box	/	/	/	/	97	137		194	234

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

IP Rating of Enclosure	IP21	
Operating Temperature	Charge: 0~50°C / Discharge: -20~55°C	
Storage Temperature	-5~35°C	
Relative Humidity	95% (non-condensing)	
Altitude	≤3000m	
Cycle Life	≥6000(25°C±2°C,70%EOL)	
Installation	Wall-Mounted, Stack-Mounted	Floor-Mounted
Communication	CAN2.0,RS485,Bluetooth/Wifi+APP	
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	

*Specifications are subject to change without prior notice

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