



Lithium Battery Energy Storage System

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PLW PRO SERIES WALL MOUNTED LITHIUM BATTERY PACK

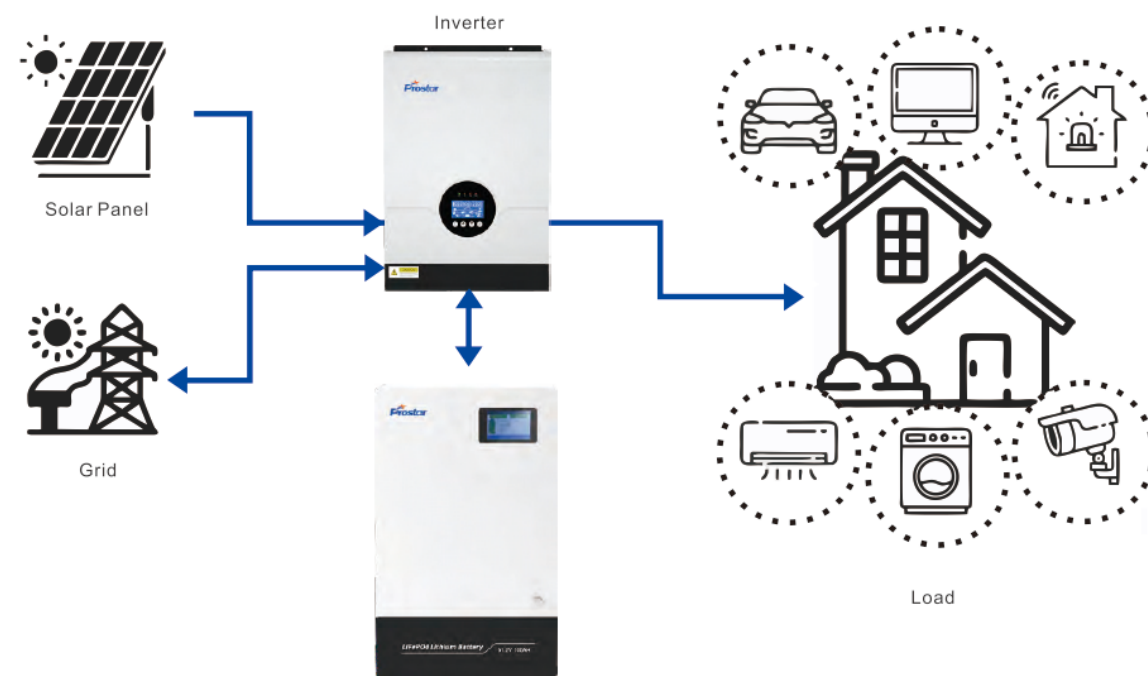
12.8V~51.2V/100Ah~300Ah

Performance Characteristics



- 1.LCD Monitor: Allows easy monitoring of energy storage power data and operating status.
- 2.High-Quality LiFePO4 Battery: Ensures safety, deep cycle capability, and extended lifespan.
- 3.Wall Brackets: Includes wall brackets for flexible installation and use in different locations.
- 4.Built-in BMS: Features a built-in Battery Management System, providing protections such as over-voltage, over-load, and over-temperature protection.
- 5.Compatibility: Can be connected to different types of loads within the voltage range.
- 6.Superior Safety: Equipped with multiple protection mechanisms to safeguard against overcharge, over-discharge, and short circuit situations.
- 7.High Efficiency: Provides a higher round-trip energy efficiency on average (92%) compared to lead acid batteries (80%), enabling efficient discharge from 100% to 0% and back to 100% charged.

Application Diagram



WALL MOUNTED LITHIUM BATTERY PACK

Technical Specifications

Model		PLW-Pro 12100	PLW-Pro 12200	PLW-Pro 24100	PLW-Pro 24200	PLW-Pro 48100	PLW-Pro 48200	PLW-Pro 48300
Nominal Capacity		100Ah	200Ah	100Ah	200Ah	100Ah	200Ah	300Ah
Electrical Parameters (25°C)	Rated Voltage	12.8V	12.8V	25.6V	25.6V	51.2V	51.2V	51.2V
	Rated Capacity (C5)	100Ah@25°C	200Ah@25°C	100Ah@25°C	200Ah@25°C	100Ah@25°C	200Ah@25°C	300Ah@25°C
	Energy	1280Wh	2560Wh	2560Wh	5120Wh	5120Wh	10240Wh	15360Wh
	Months Self Discharge	<3%						
	Charge Efficiency	99.5%@ 0.2C						
	Discharge Efficiency	96-99%@ 1C		97-99%@ 1C		96-99%@ 1C		
Terminal Diameter		T16		M10		M8		
Internal Resistance (Fully Charged, 25°C)		<14mQ		<10mQ		<200mQ		
Cycle Life		>3000 cycles @ 0.2C 100%D.O.D						
Capacity Affected By Temperature	40°C	101%						
	25°C	100%						
	0°C	90%						
	-10°C	75%						
Nominal Operating Temperature		25°C± 3°C (77°F± 5°F)						
Operating Temperature Range	Discharge	-20°C~60°C (-4°F ~ 140°F)						
	Charge	0°C~45°C (32°F ~ 113°F)						
	Storage	0°C~40°C (32°F ~ 104°F)						
Water Dust Resistance		IP50						
Charge Voltage		14.6V		28V		57V		
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 14.6V, then Constant Voltage 14.6V until the current drops to 0.02CA, rest for 30 minutes before use		0.2CA Constant Current to 28V, then Constant Voltage 28V until the current drops to 0.02CA, rest for 30 minutes before use		0.2CA Constant Current to 57V, then Constant Voltage 57V until the current drops to 0.02CA, rest for 30 minutes before use		
Charge Current		20A	40A	20A	40A	20A	40A	60A
Maximum Charge Current		50A	100A	50A	100A	50A	100A	100A
Charge Cut off Voltage		14.6V		28V		57V		
Continuous Discharge Current		100A						
Maximum Pulse Current		300(<2s)		150A(<2s)		150A (<1S)		
Discharge Cut Off Voltage		11.2V		24V		46V		
Communicate Protocol (Optional)		(Default none)RS485		(Default none) RS485/RS232/CAN		RS485/RS232/CAN		
SOC (Optional)		(Default none) Bluetooth				Screen/LED/PC Software		
Application Connection		1 string 1 parallel						
Mechanical	Cells	4 Strings		8 Strings		16 Strings		
	Container	ABS		Metal				
Dimensions	Length	290mm	250mm	370mm	370mm	370mm	370mm	625mm
	Width	190mm	190mm	160mm	160mm	160mm	290mm	230mm
	Height	180mm	430mm	400mm	600mm	600mm	600mm	950mm
	Total length	1802mm	285mm	400mm	600mm	600mm	600mm	1000mm
Net Weight		12.5kg	23.1kg	22.85kg	42.2kg	42.2kg	79.2kg	115kg