

All In One ESS Energy Storage System

LPWONE Series Wall Mounted
LiFePO4 Battery + Smart Inverter
Tiny or Big Home Solar Solutions



LPWONE Series Brief Introduce

LPWONE wall-mounted lithium battery + inverter integrates cutting-edge technology for efficient energy storage and management. Designed for seamless installation and space-saving efficiency, it offers a compact solution ideal for residential and small commercial applications. With a robust 1-10 kW inverter and 1-10 kWh lithium battery capacity, it ensures reliable power supply and energy optimization. Advanced features include smart monitoring, remote control capabilities, and built-in safety protocols for enhanced reliability. This All In One system delivers versatility, performance, and ease of use, making it a dependable choice for modern energy needs. Customize All In One system to power your facility-with or without solar and lower your energy bills.

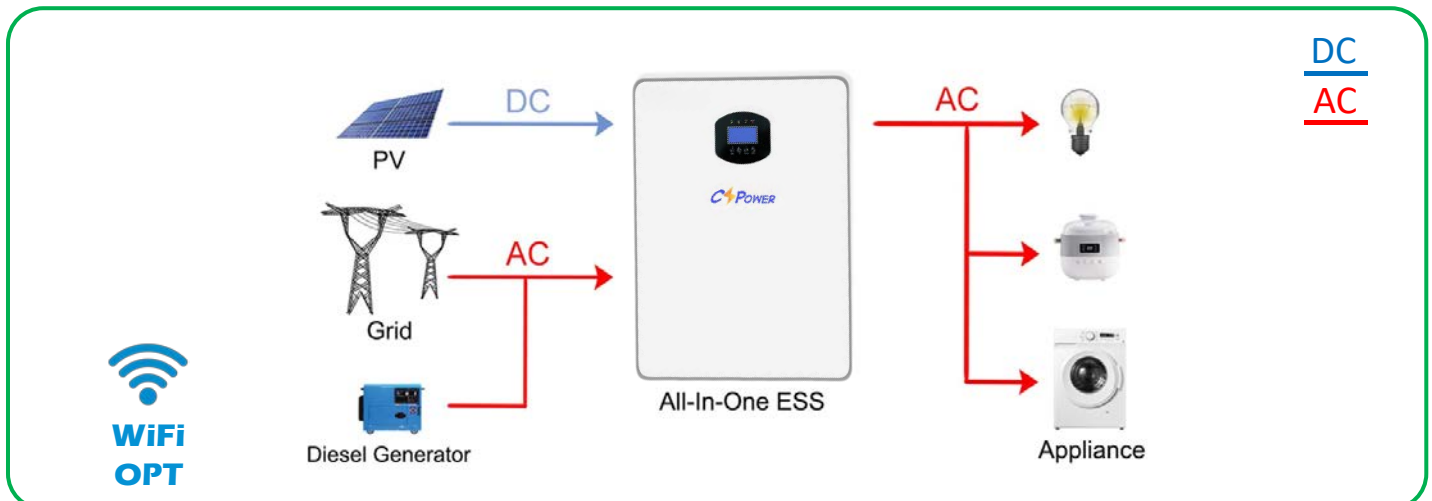
Safety

Long Life

Simple



Application Block Diagram



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Technical Specifications

Model Parametric Description		LPWONE 1.28KWh+1KW	LPWONE 2.56KWh+3KW	LPWONE 5.12KWh+5KW	LPWONE 10.24KWh+10KW
Battery	Battery Type	LiFePO4 Battery			
	Battery Energy	1.28KWh	2.56KWh	5.12KWh	10.24KWh
	Nominal Voltage	12.8V	25.6V	51.2V	51.2V
	Rated Capacity	100Ah	100Ah	100Ah	200Ah
	Voltage Range	11.0~14.0V	22.0~28.0V	42.0~57.0V	42.0~57.0V
	Cycle Life	Prismatic Cell, > 6000cycles @ 80%DOD			
	Months Self Discharge	<3%			
	Communicate Protocol	CAN/RS485			
	Charge Temperature	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity			
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity			
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity			
PV	Max. Power	600W	3000W	5500W	10.4KW(5200*2)
	Max. PV Voltage	150Vdc	450Vdc	500Vdc	500Vdc
	MPPT Voltage Range	20~50Vdc	30~400Vdc	120~430Vdc	90~450V
	Max.PV charge Current	40A	80A	80A	80A*2
AC Output	Rated Power	1.0KW	3.0KW	5.0KW	10KW
	AC Voltage	230Vac±5%			
	AC Frequency	50Hz/60Hz			
	Efficiency	≤93%	≤94%	≤94%	≤94%
	Transfer time	10ms (for PC) 20ms (for Appliance)			
	Waveform	Pure sine wave			
AC Input	Rated AC Voltage	230Vac			
	AC Voltage Range	170~280Vac(for PC) 90~180Vac(for Applies)			
	Frequency Range	50Hz/60Hz(Auto sensing)			
General Parameters	Altitude	≤2000m			
	Humidity	5%~95%			
	Work Temperature	-10 °C ~50 °C			
	Size(mm)	450*140*280mm 17.72*5.51*11.03Ins	450*140*570mm 17.72*5.51*22.45Ins	500*150*730mm 19.69*5.91*28.75Ins	620*150*1300mm 24.42*5.91*51.19Ins
	Weight(kg)	25kgs/55.11lbs	32kgs/70.54lbs	58kgs/127.85lbs	95kgs/209.41lbs



Note: All above information shall be changed without prior notice, CSPower reserves the right to explain and update the latest information. Welcome inquiry us !

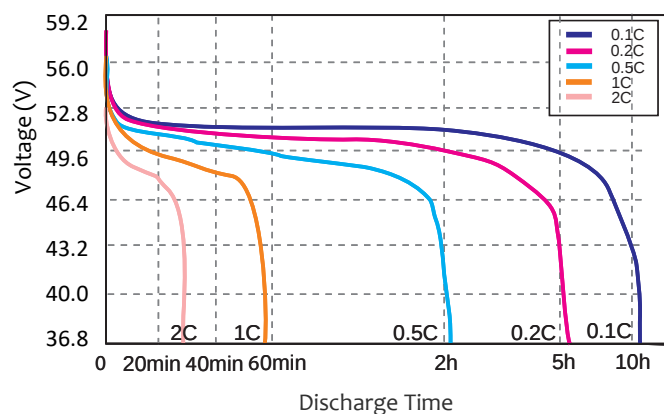


Battery BMS Specifications

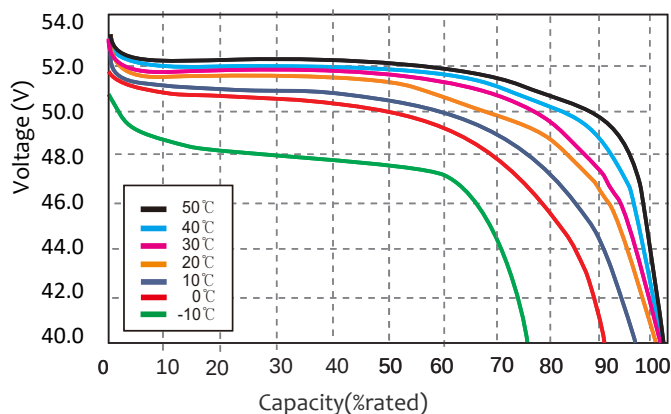
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Battery Performance Characteristics (Data test from 16 Series Cell)

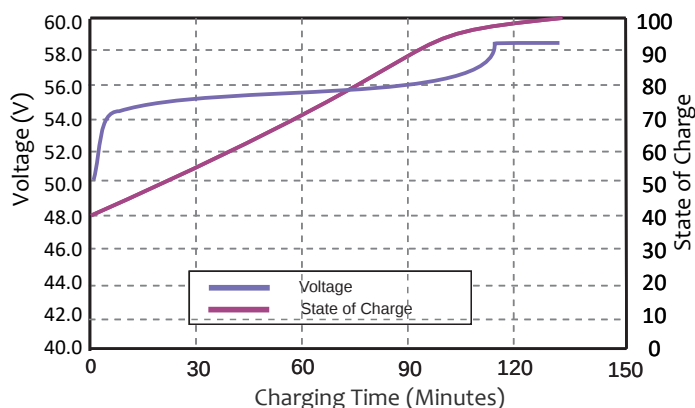
Different Rate Discharge Curve (25°C)



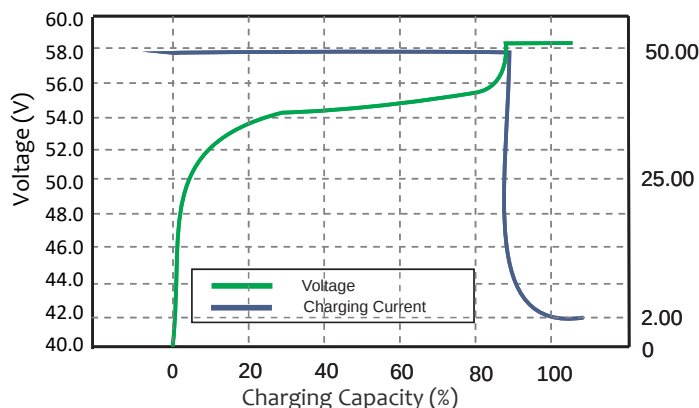
Different Temperature Discharge Curve At 0.5c



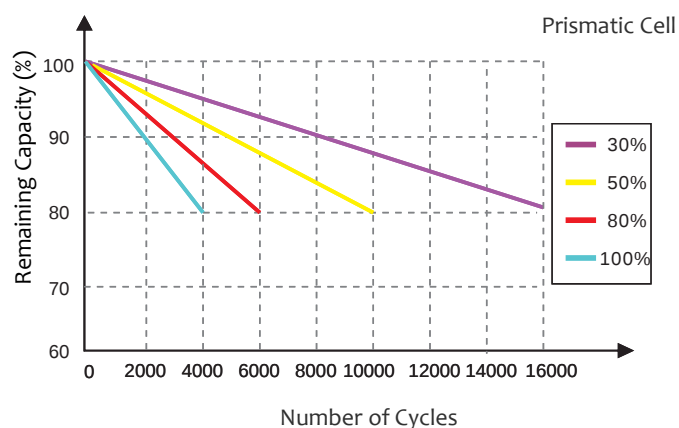
State Of Charge Curve At 0.5c (25°C)



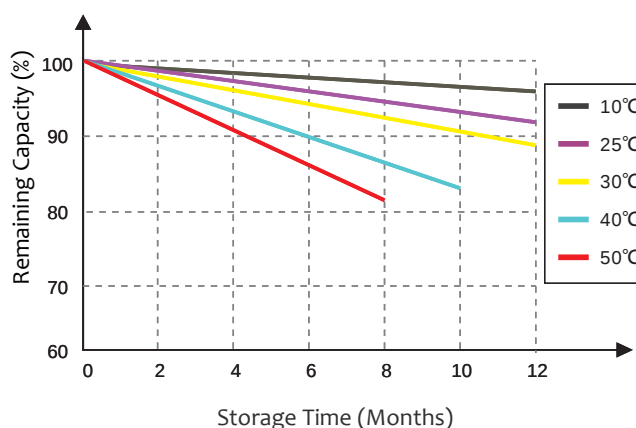
Charging Characteristics At 0.5c (25°C)



Cycle Life Curve At 1c According DoD



Self Discharge Characteristics Curve



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SAFETY WARNING : Use only within the allowed parameters. Do not short circuit or over-load the battery. Charge only using an approved charger designed specifically to charge this battery. Do not heat above maximum temperatures indicated. Never crush, mutilate, puncture or abuse the battery. Do not dismantle the pack or disable any of the protective devices or circuits. Do not use the battery if you suspect it may be faulty or damaged.

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