

LiFePO₄ Power-Rack Energy Storage Batteries

TG-Box-48300

PR800-48

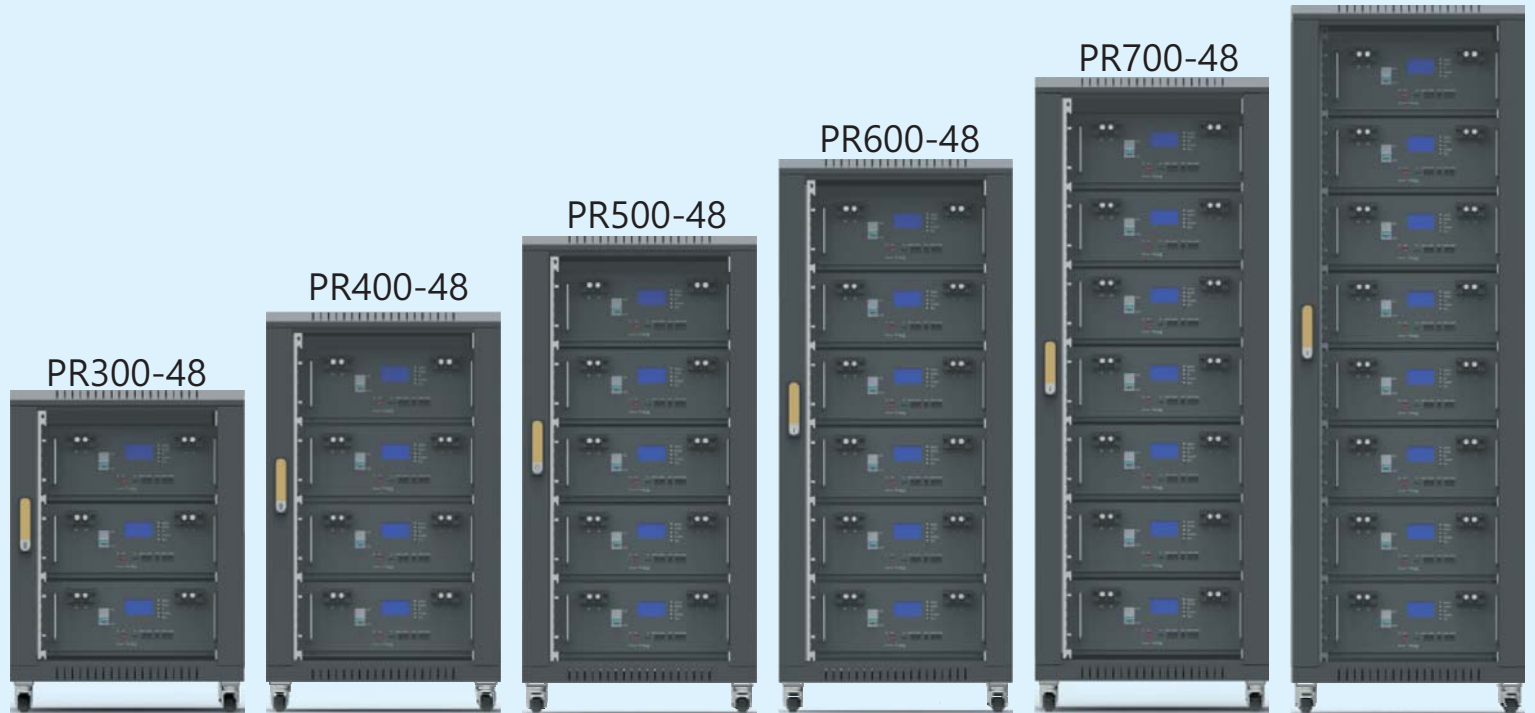
PR700-48

PR600-48

PR500-48

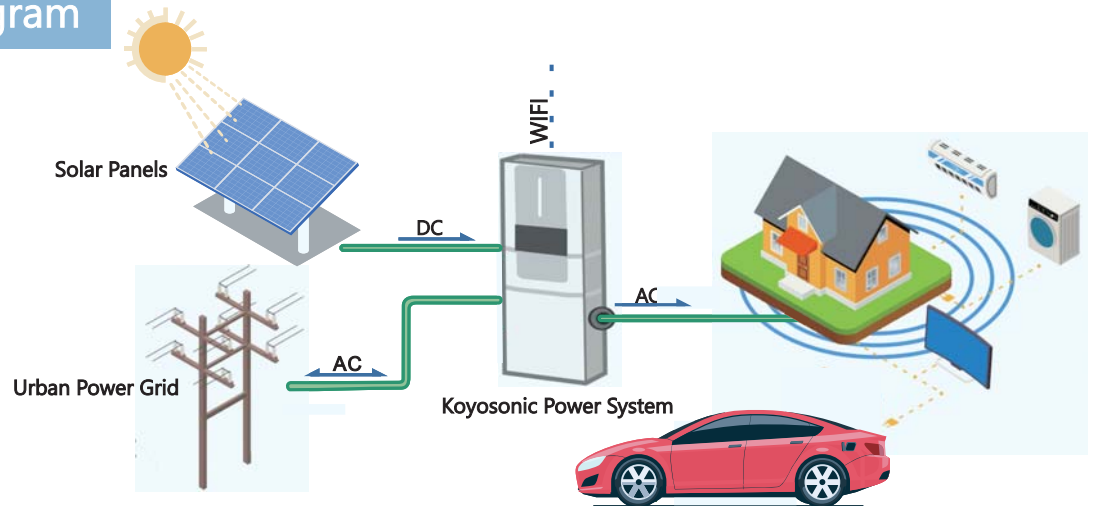
PR400-48

PR300-48



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Power System Diagram



Many Matchable Inverters

FOTONA batteries can support many communication ports and docking stations in inverters from different suppliers as follows. We can also do adjustment as wanted as per the inverter brands or protocols from inverter suppliers.



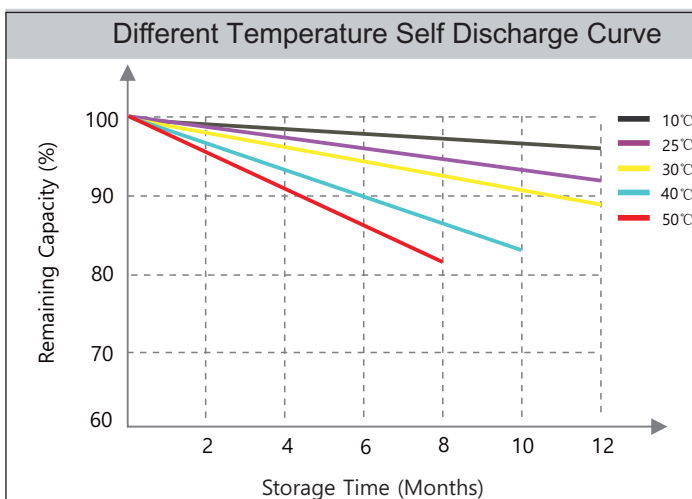
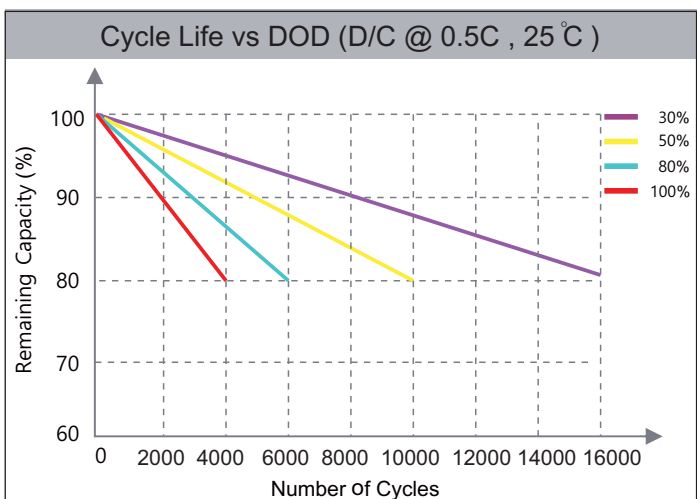
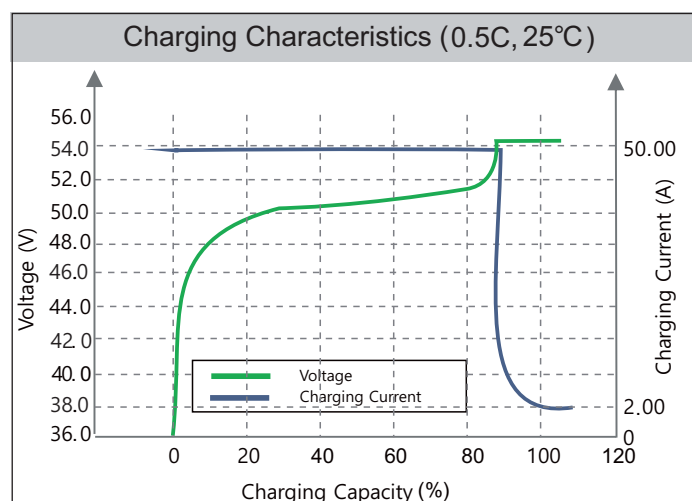
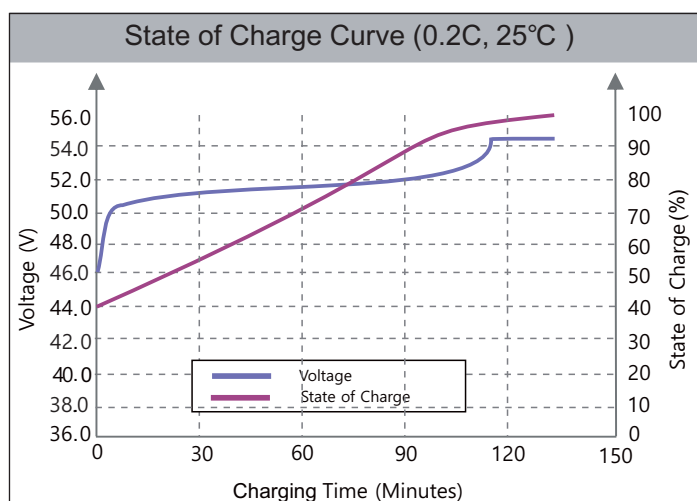
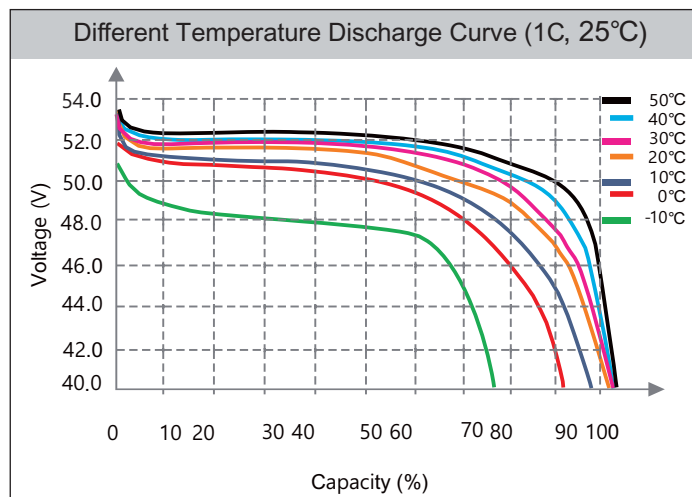
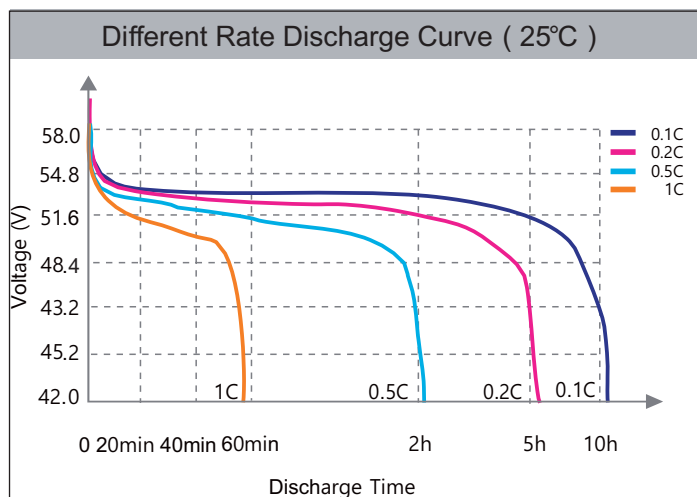
LiFePO₄ Power-Rack Energy Storage Batteries

Technical Specification

Model	PR50-48	PR100-48	PR200-48
Nominal Voltage	51.2V (Optional)		
Capacity	50Ah	100Ah	200Ah
Energy	2560Wh	5120Wh	10240Wh
Internal Resistance @ 50% SOC	≤30mΩ	≤70mΩ	≤100mΩ
Cycle Life	≥6000 cycles @ 80% DOD, 25°C, 0.5C ≥4000 cycles @ 80% DOD, 40°C, 0.5C		
Standard Charge Voltage	58.0V±0.5V		
Charge Cut-off Voltage	56.0V±0.5V		
Discharge Cut-off Voltage	45.0V±0.2V		
Recommended Current	25A	50A	50A
Max. Continuous Current	50A	100A	100A
Display	LCD		
Communication Interface	Rs485 / RS232 / CAN (Optional)		
Dimensions	442 x 400 x133mm	442x 440 x165mm	474 x 470 x235mm
Approx. Weight	28kg	45kg	85kg
Design Life	≥15 years		
Certification	UN38.3 / MSDS/ UL1973(Cell) / IEC62619(Cell)		
Charge Temperature	0°C~65°C (Under 0°C extra heating mechanism)		
Discharge Temperature	-20°C~65°C (Under 0°C work with reduced capacity)		
Storage Temperature	-40°C~55°C @ 60%±25% relative humidity		

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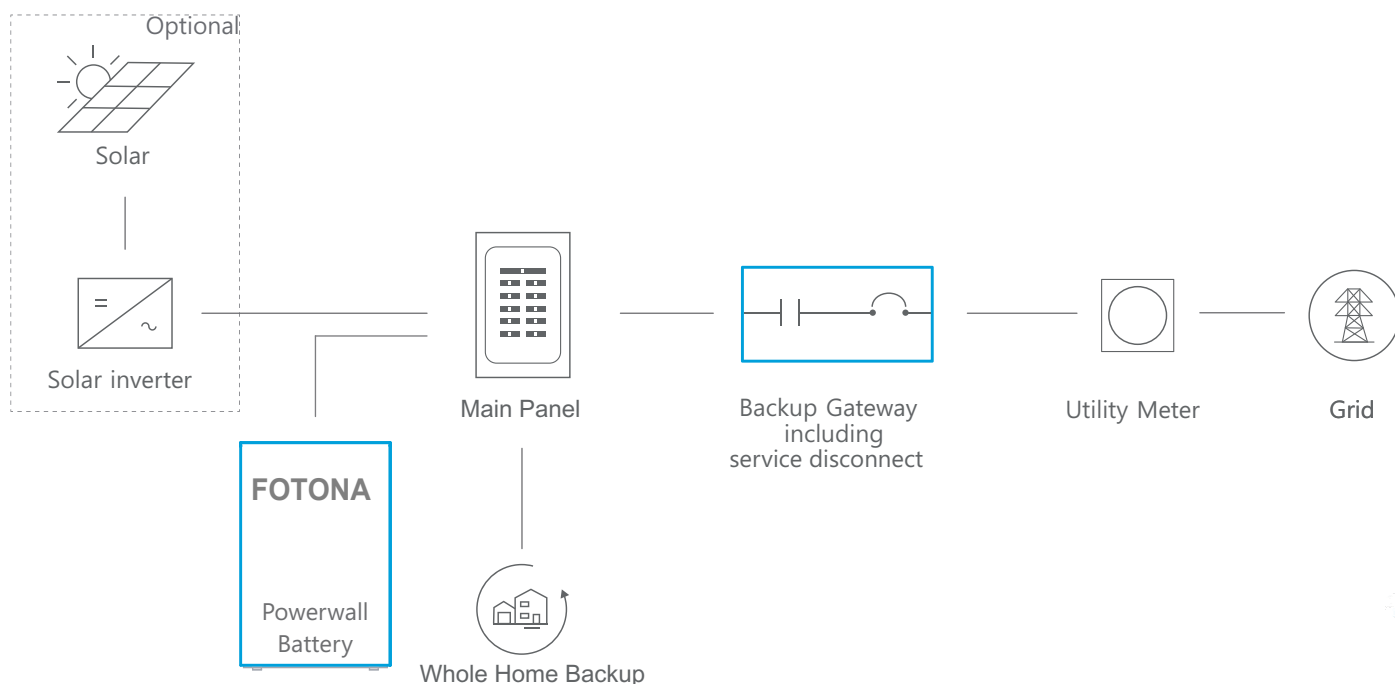
Technical Characteristics



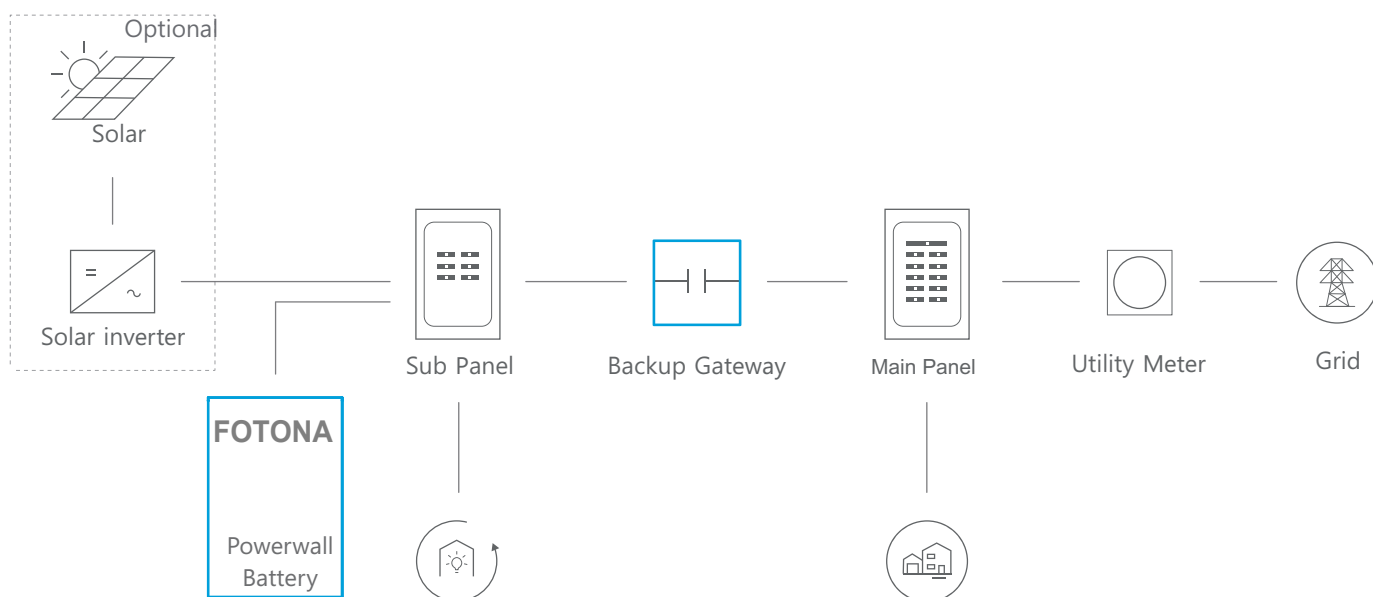
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Typical System Layouts

WHOLE HOME BACKUP



PARTIAL HOME BACKUP



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Features and Advantages



High cycle life

6000 cycles @80% DoD for effectively lower total of ownership cost



Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



Quickly recharge

Save time and increase productivity with less down time owing to superior charge/discharge efficiency.



Light weight

A lithium battery can provide more Wh/Kg and it is just 1/3 of its equivalent VRLA-AGM battery in weight.



Longer service life

Maintenance-free batteries with stable chemistry.



Better storage

Up to 6 months owing to its extremely low self discharge (LSD) rate and no risk of sulphation.



Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



CAUTIONS:

- Do NOT short circuit, reverse polarity, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 30~50% SOC. Recharging every 3 months is recommended. It should be stored in a clean, cool, dry and well-ventilated place.

Main Application Sites



House



Small Shop



School



Hospital

