

PV ENERGY STORAGE SYSTEM

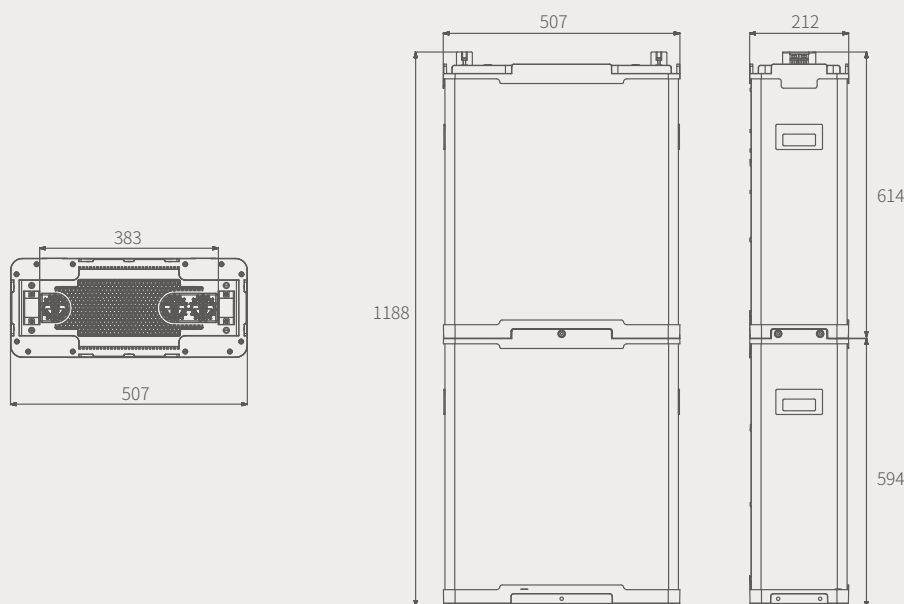
15.36kWh Stackable Floor Type Power

GR48-300S

LiFePO₄ Battery Pack



CONFIGURATION TECHNICAL PARAMETER



Basic Specifications

Nominal Capacity	300Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	15.36kWh

Input

Full charge Voltage	56V-60V
Maximum Charging Voltage	90V
Input Voltage Range	60V-100V
Continuously Use Input Current	100A
Maximum Solar Panel Input Current	100A
Rshoot delay protection	1000ms

Output

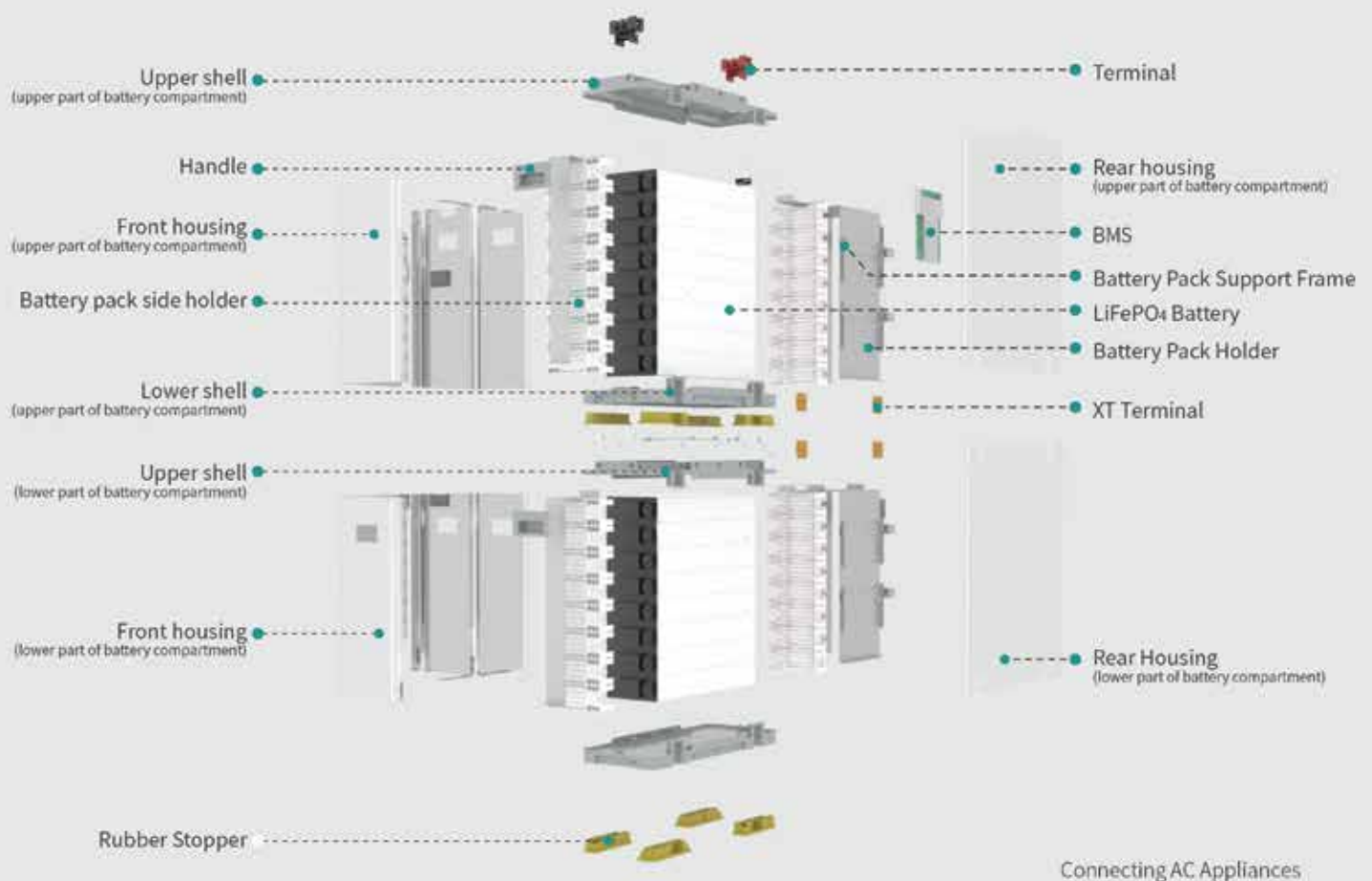
Continuously Use Output Current	100A
Discharge Cut-off Voltage	38V-48V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	300A
Instant Start Current Time	10S

Battery

Cell type	LiFePO4 Battery/LFP
Storage temperature range	Short-Term -20°C-40°C(Within 1 month) Long-term 10°C-35°C(Within 1 year)
Operating temperature range	-15°C-60°C
Recommended temperature range	10°C-40°C
Storage humidity	≤75% RH
Atmospheric pressure	Below 5000 above sea level
Self-Discharge (25°)	<3%/Month
Depth of discharge	>80%
C-rate Discharge	<0.8C
Life Cycle	>6000 Cycles

Other

Certification standards	UN38.3/CE/MSDS/DGM
Warranty	5 years
Product Size	614±2×507±2×212±2mm
Packing Size	668±2×645±2×713±2mm



Store your electric energy to cope with the evening peak or power outage.



More Available Power



Flexible Investment



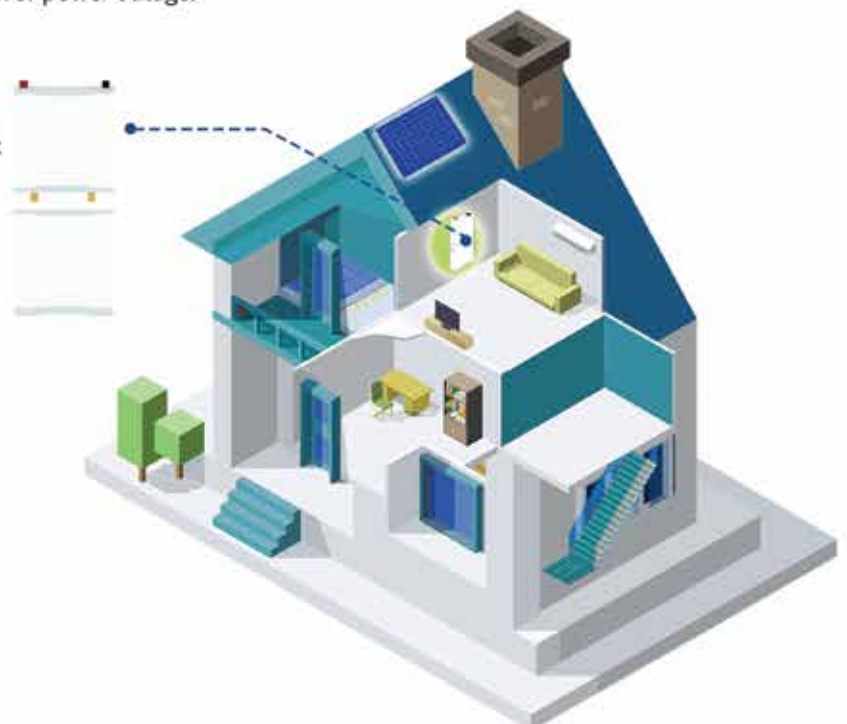
Simple Installation



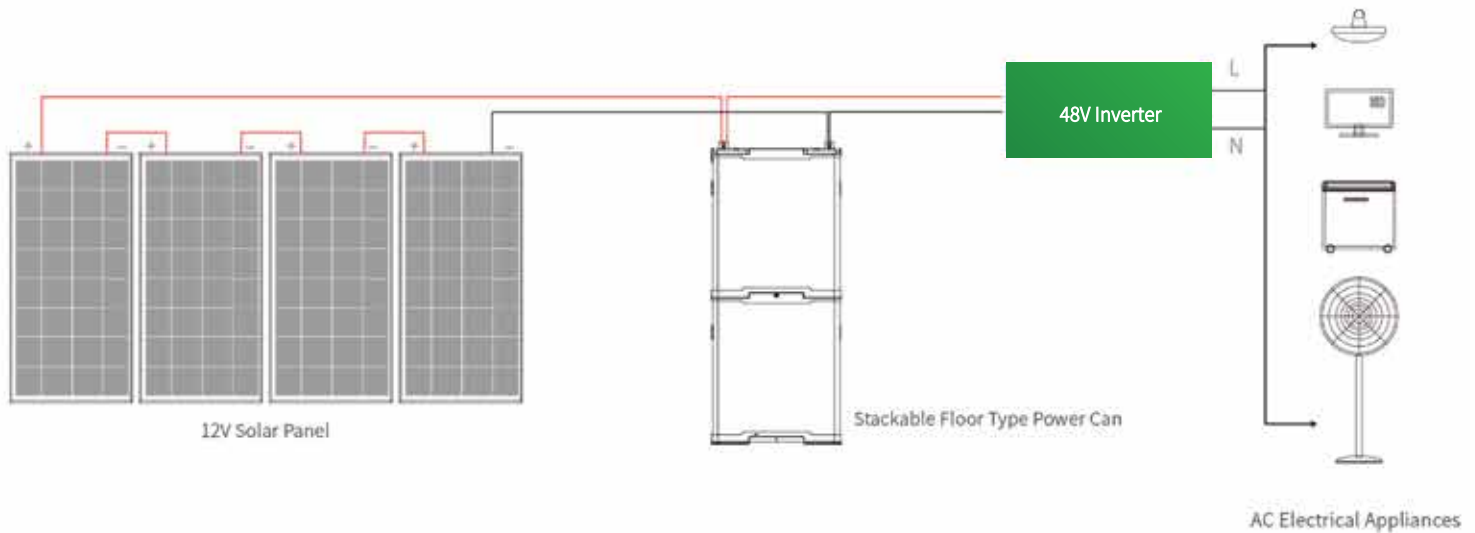
Safe & Reliable

matters need attention:

- It is strictly forbidden to install near bedroom and nearby flammable material.
- Installation in inhabited rooms is not recommended.
- It is strictly forbidden to use the controllers, inverters, inverters and controller integrated equipment which are not professionally matched.



PRODUCT ADVANTAGES



- All in one mould design and production, easy to install.
- LifePO4 battery has a life-span of over 12 years with a DC output and a design that is dustproof, reliable, and safe.
- Integrated packaging, safe and convenient to transport.
- Wide voltage input; during unexpected high voltage input, LifePO4 battery can effectively block the high voltage, so that the BMS of the battery won't break down; hence, greatly reducing the risk of thermal runaway combustion of lithium battery.
- Compact appearance design, extremely compressed product
- thickness, greatly reducing space occupancy.
- High quality aluminium magnesium alloy, anti-corrosion, substantial, durable, artistic, practical.
- Integrated charging and storage, reduced wiring and installation that facilitate user operation

Military aviation plug

Never oxidize in high temperature, high humidity and high-salt environment; No risk of thermal runaway and fire



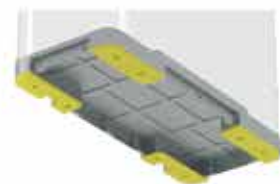
Split-type building block design

Buckle design, which can increase the capacity by alignment and stacking; Firmly fixed and can be carried by single person



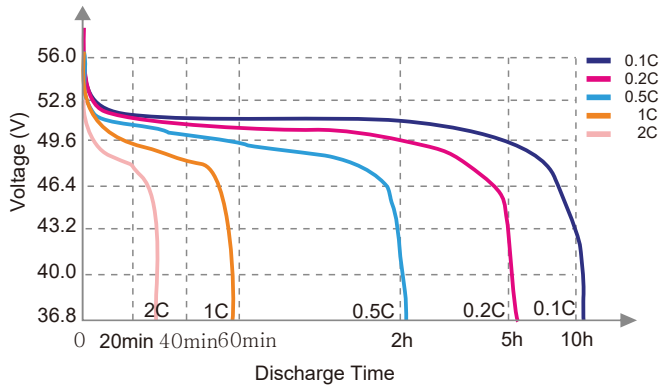
Rubber Feet Pad

The bottom of battery is equipped with rubber feet pad to increase safety and play roles of shock-proof buffer, anti-static, electrical insulation and so on.

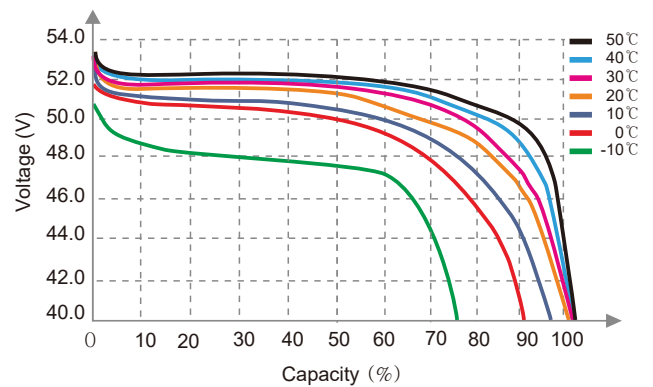


BATTERY SPECIFICATIONS

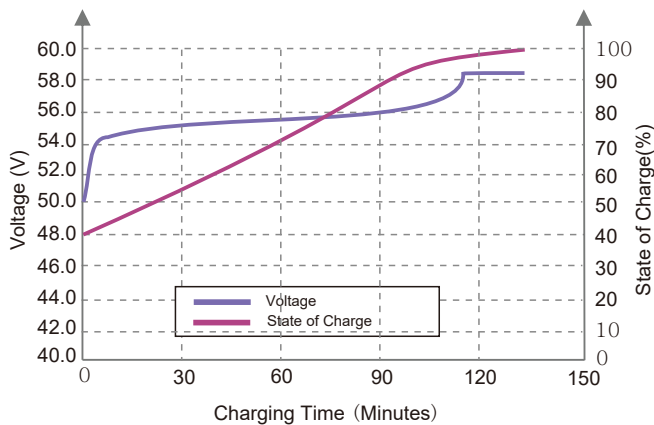
Different Rate Discharge Curve (25°C)



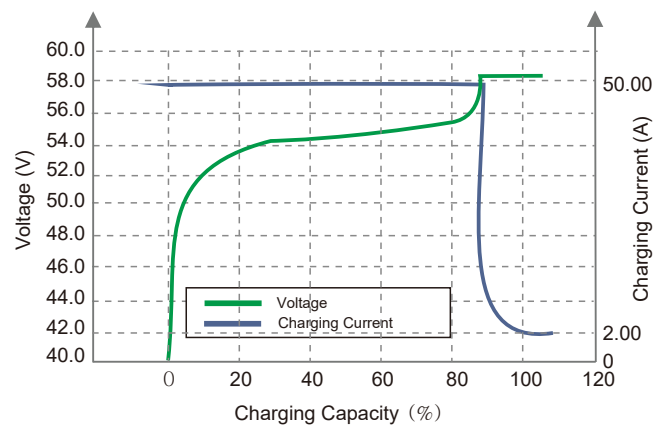
Different Temperature Discharge Curve (0.5C)



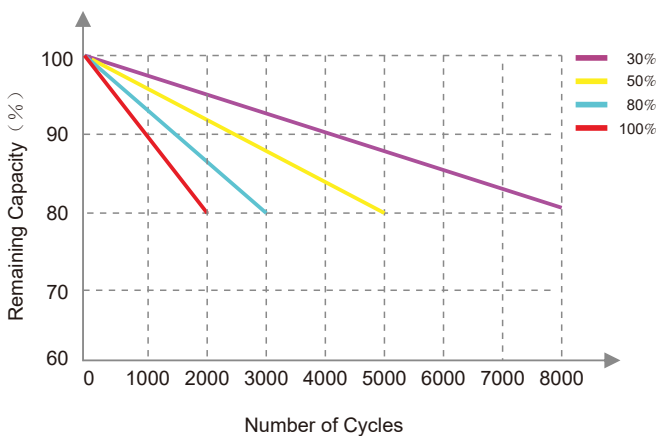
State of Charge Curve (0.5C, 25°C)



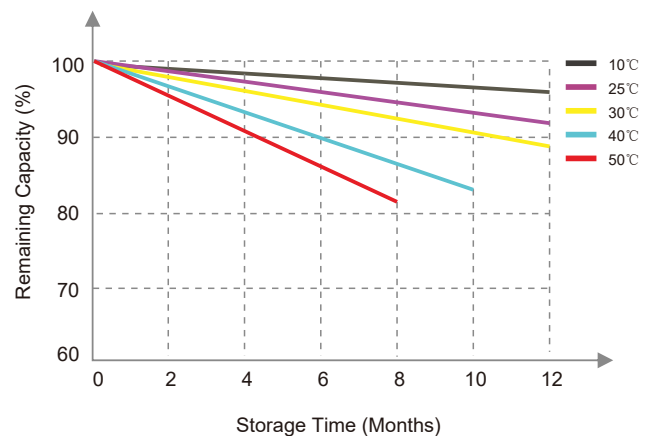
Charging Characteristics (0.5C, 25°C)

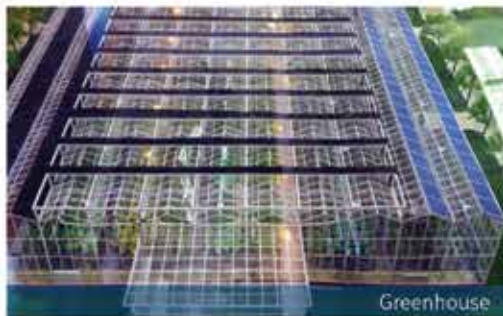
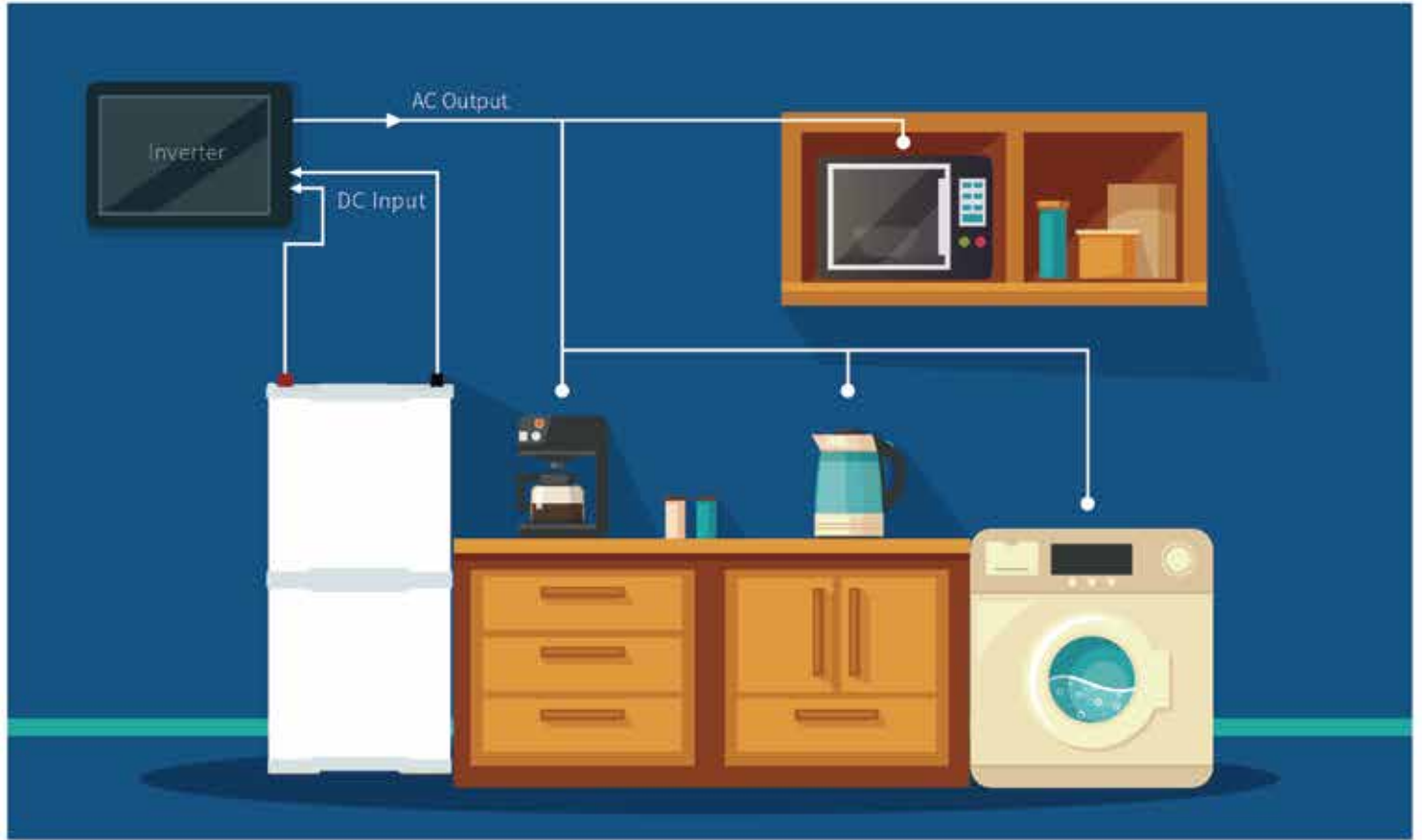


Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve







15.36kWh

New Zealand

System Configuration

- Solar Panel
- Inverter
- 15.36kWh Energy Storage Battery



30.7kWh

Shandong, China

System Configuration

- Solar Panel
- Inverter
- 30.7kWh Energy Storage Battery



15.36kWh

Beijing, China

System Configuration

- Solar Panel
- Inverter
- 15.36kWh Energy Storage Battery



15.36kWh

Nigeria

System Configuration

- Solar Panel
- Inverter
- 15.36kWh Energy Storage Battery