

## PV ENERGY STORAGE SYSTEM

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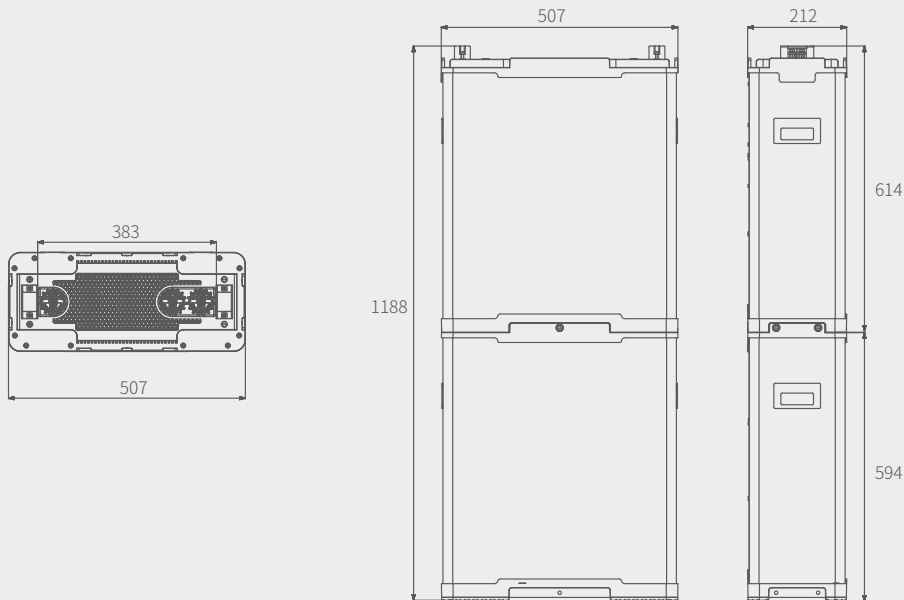
10kWh Stackable Floor Type Power

**GR48-200S**

LiFePO<sub>4</sub> Battery Pack



## CONFIGURATION TECHNICAL PARAMETER



### Basic Specifications

Nominal Capacity	200Ah
Nominal Voltage	48V(51.2V)
Electricity(kWh)	10.24kWh

### 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

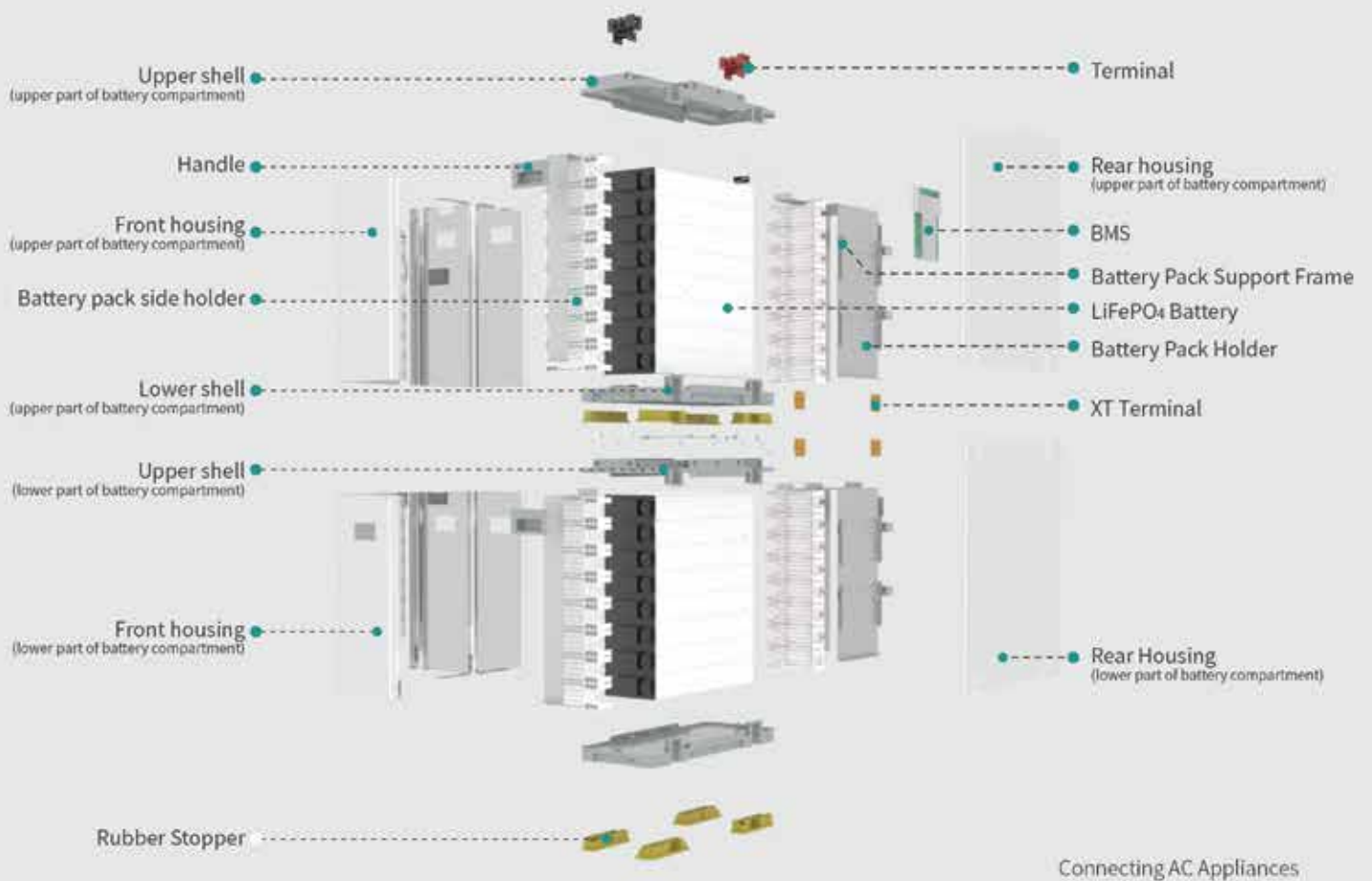
Continuously Use Output Current	100A
Discharge Cut-off Voltage	38V-48V
Over-Discharge Delay Protection	1000ms
Short Circuit Protection Delay	300us
Short Circuit Protection Recovery	Disconnect load
Instant Start Current	300A
Instant Start Current Time	10S

### 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



Connecting AC Appliances

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



More Available Power



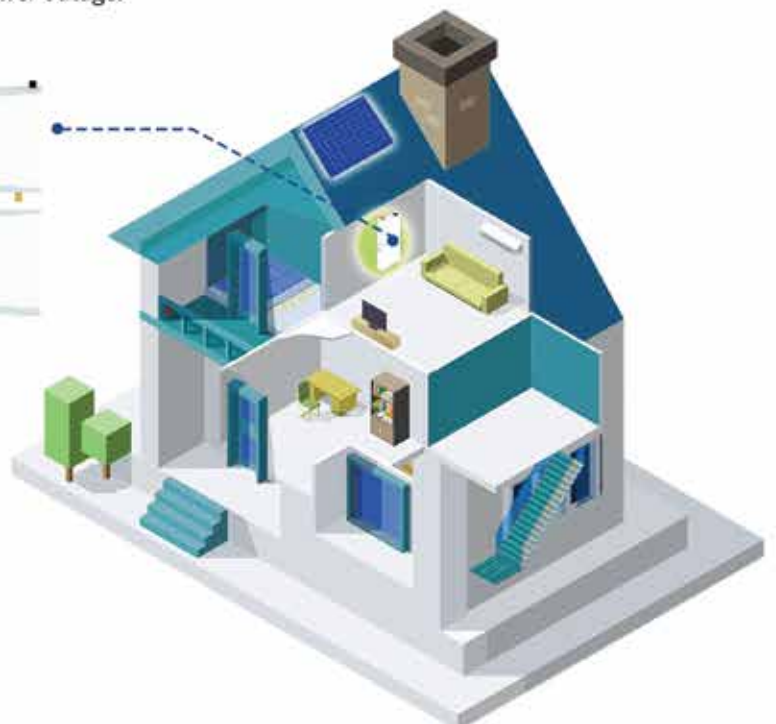
Flexible Investment



Simple Installation



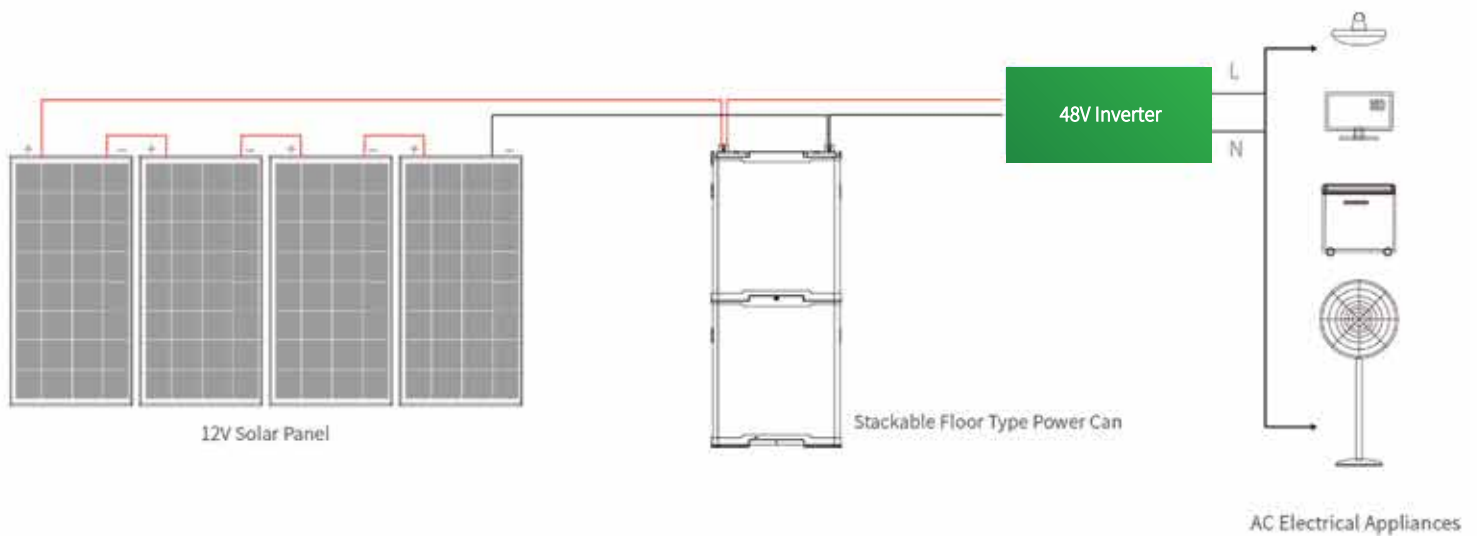
Safe & Reliable



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



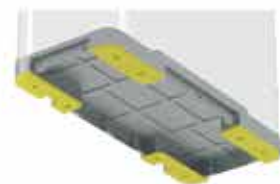
### Split-type building block design

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



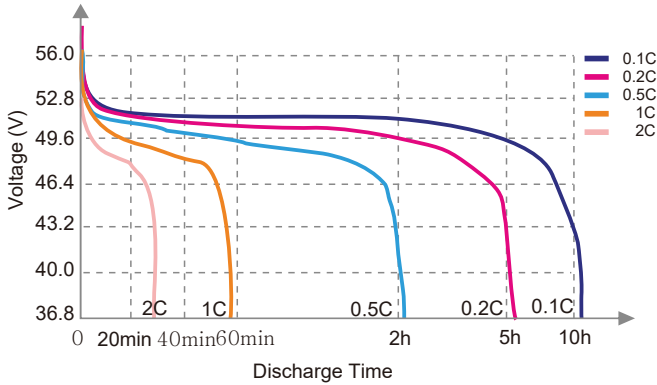
### Rubber Feet Pad

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.

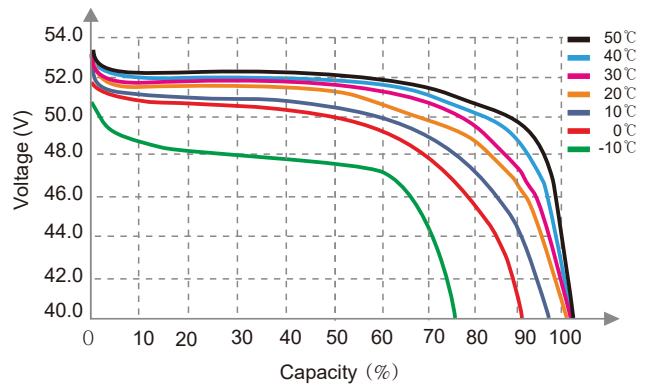


## BATTERY SPECIFICATIONS

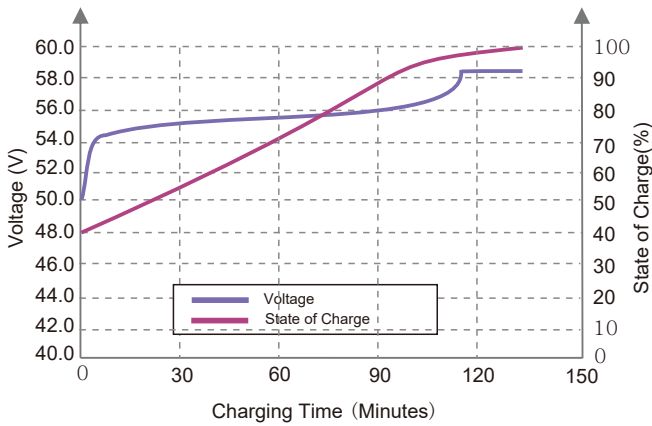
### Different Rate Discharge Curve (25°C)



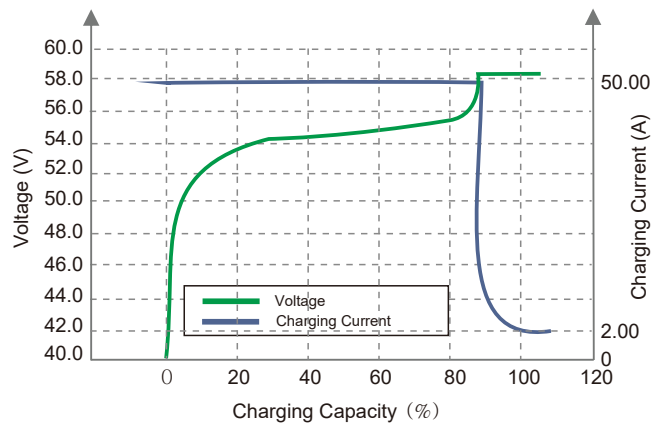
### Different Temperature Discharge Curve (0.5C)



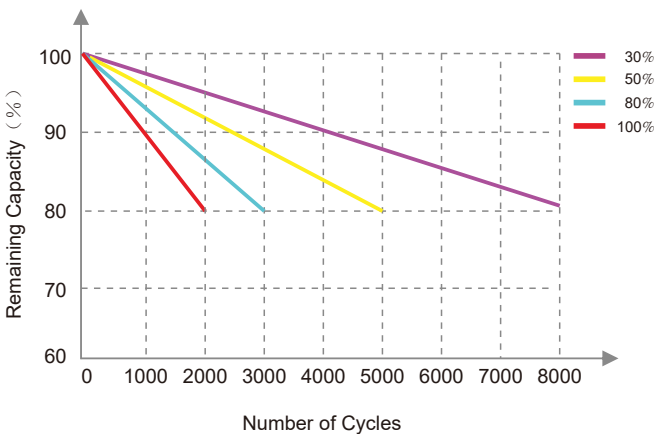
### State of Charge Curve (0.5C, 25°C)



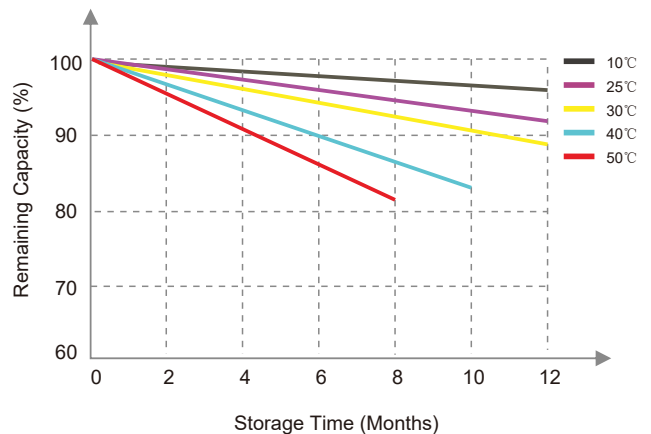
### Charging Characteristics (0.5C, 25°C)



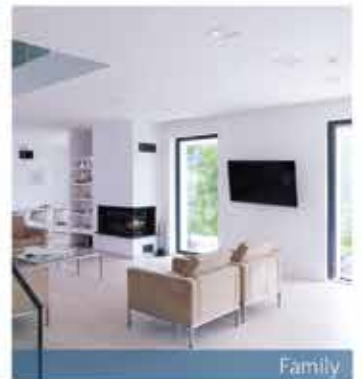
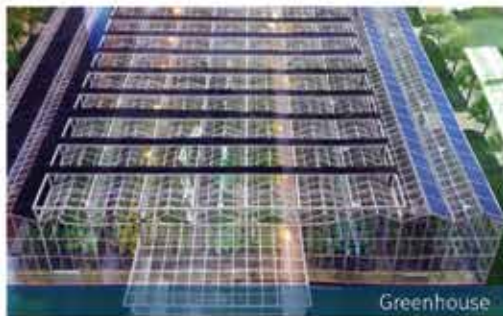
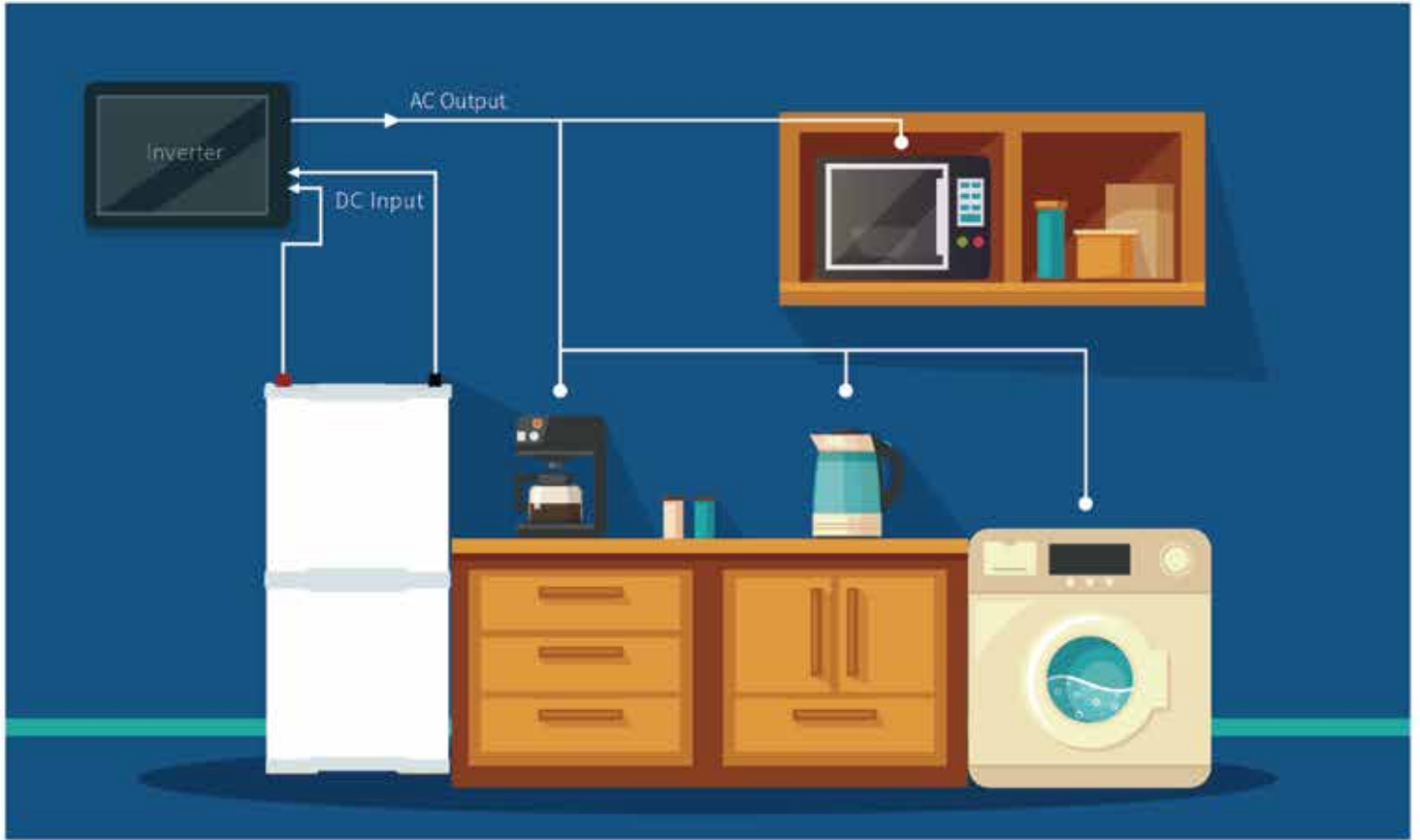
### Different DOD Discharge Cycle Life Curve (1C)



### Different Temperature Self Discharge Curve









**10kWh**  
New Zealand

- System Configuration**
- Solar Panel
  - Inverter
  - 10kWh Energy Storage Battery



**20kWh**  
Shandong, China

- System Configuration**
- Solar Panel
  - Inverter
  - 20kWh Energy Storage Battery



**10kWh**  
Beijing, China

- System Configuration**
- Solar Panel
  - Inverter
  - 10kWh Energy Storage Battery



**10kWh**  
Nigeria

- System Configuration**
- Solar Panel
  - Inverter
  - 10kWh Energy Storage Battery