



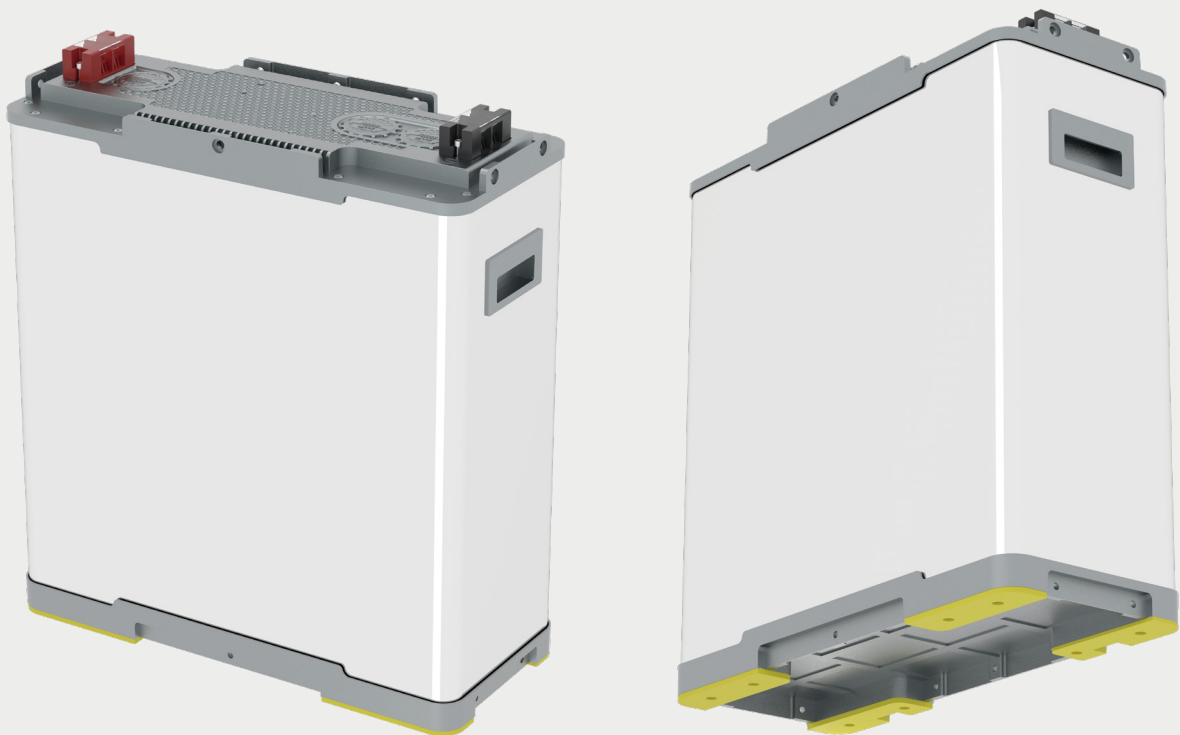
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# PV ENERGY STORAGE SYSTEM

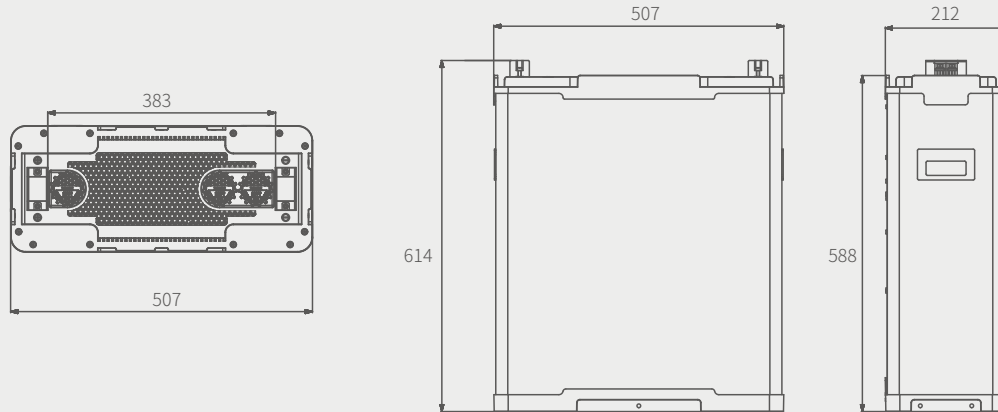
## 5kWh Stackable Floor Type Power Can

BCT-V-24-200

LiFePO<sub>4</sub> Battery Pack



Blue Carbon, no need electricity bill at all.



### Basic Specifications

|                  |            |
|------------------|------------|
| Nominal Capacity | 200Ah      |
| Nominal Voltage  | 24V(25.6V) |
| Electricity(kWh) | 5.12kWh    |

### Input

|                                   |           |
|-----------------------------------|-----------|
| Full charge Voltage               | 28.8V-30V |
| Maximum Charging Voltage          | 50V       |
| Input Voltage Range               | 30V-50V   |
| Continuously Use Input Current    | 100A      |
| Maximum Solar Panel Input Current | 100A      |
| Rshoot delay protection           | 1000ms    |

### Output

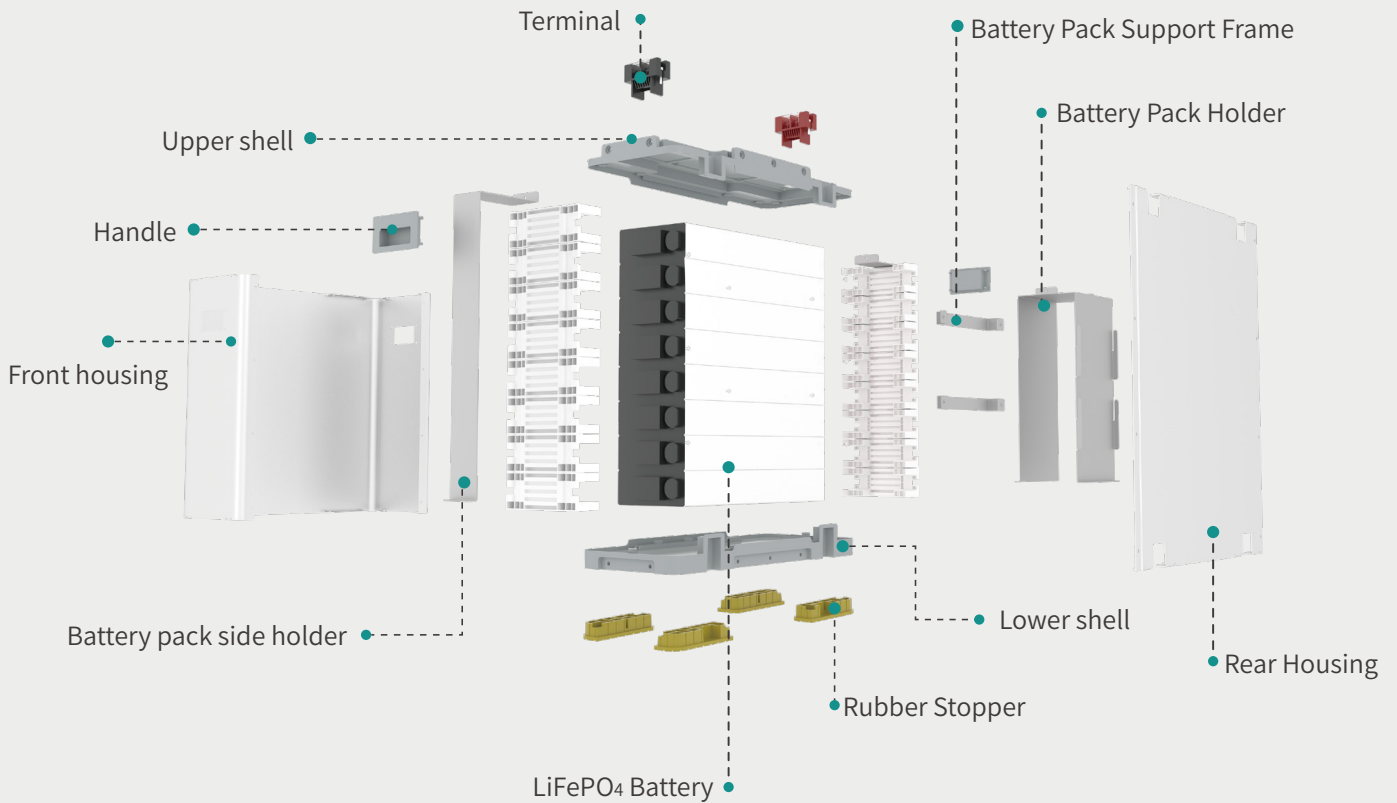
|                                   |                 |
|-----------------------------------|-----------------|
| Continuously Use Output Current   | 100A            |
| Discharge Cut-off Voltage         | 20V-24V         |
| Over-Discharge Delay Protection   | 1000ms          |
| Short Circuit Protection Delay    | 300us           |
| Short Circuit Protection Recovery | Disconnect load |
| Instant Start Current             | 400A            |
| Instant Start Current Time        | 10S             |

### Battery

|                               |   |
|-------------------------------|---|
| Cell type                     | LiFePO4 Battery/LFP   |
| Storage temperature range     | Short-Term -20°C-40°C(Within 1 month)<br>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   |
| Cycle life                    | >6000Time(<0.5C)  |

### Other

|                         |                     |
|-------------------------|---------------------|
| Certification standards | UN38.3/CE/MSDS/DGM  |
| Warranty                | 5 years             |
| Product Size            | 614±2×507±2×212±2mm |
| Packing Size            | 668±2×328±2×706±2mm |



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



More Available Power



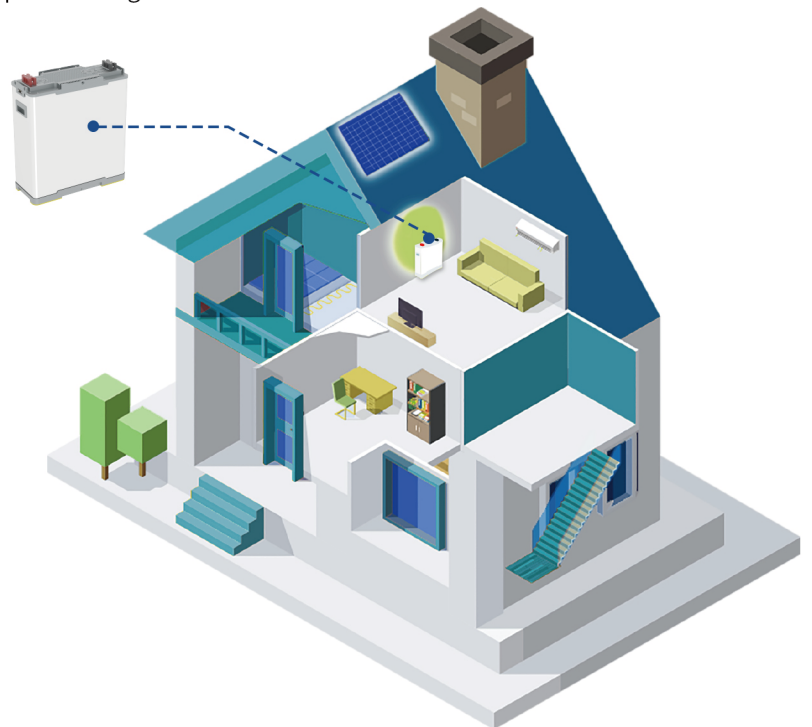
Flexible Investment



Simple Installation

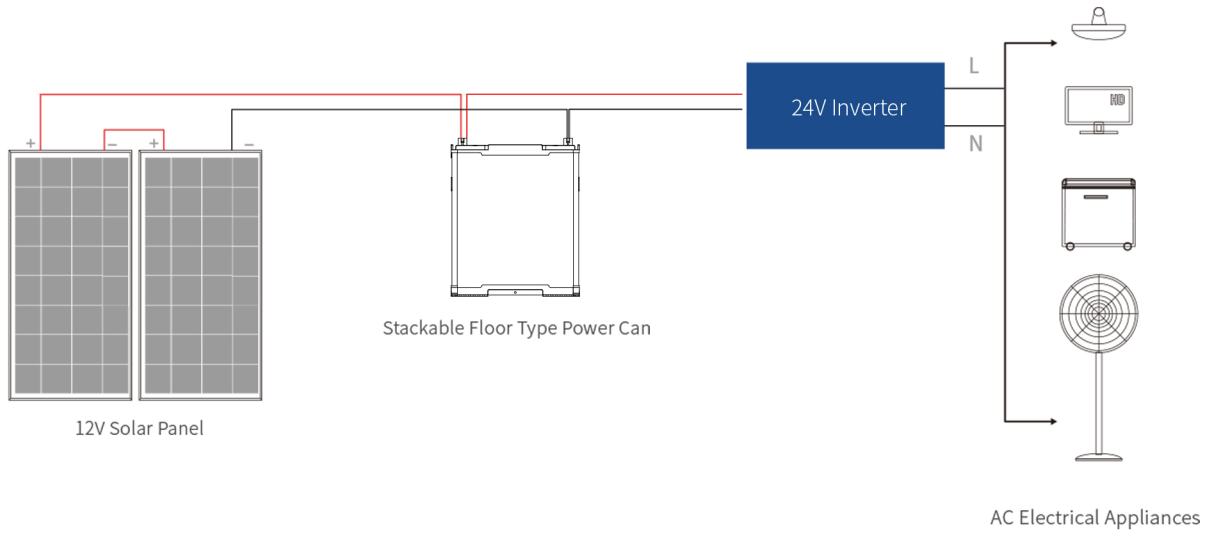


Safe & Reliable



matters need attention:

- It is strictly forbidden to install near bed-room 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.



- All in one mould design and production, easy to install.
- With longer span life LiFePO4 battery, over 12 years lifespan, ensure the whole set products' life span.
- Dustproof structure design, DC output, safe and reliable.
- Integrated packaging, safe and convenient to transport.
- Wide voltage input, when unexpected high voltage input, can effectively block the high voltage, so that the BMS of the battery will not be broken down, 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, reduce wiring, installation and other work, and facilitate user operation.

### Military Aviation Plug

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



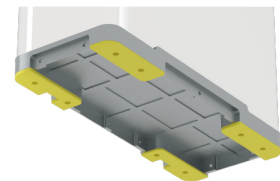
### Split-type Building Block Design

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.



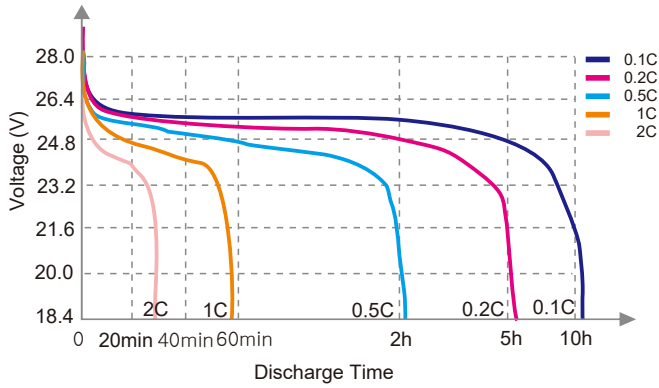




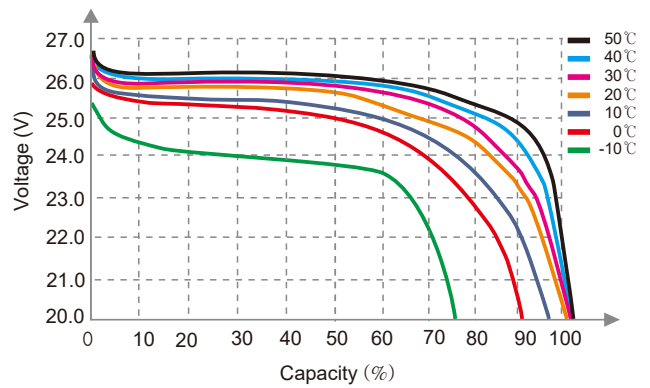
# BCT

## Battery Specification

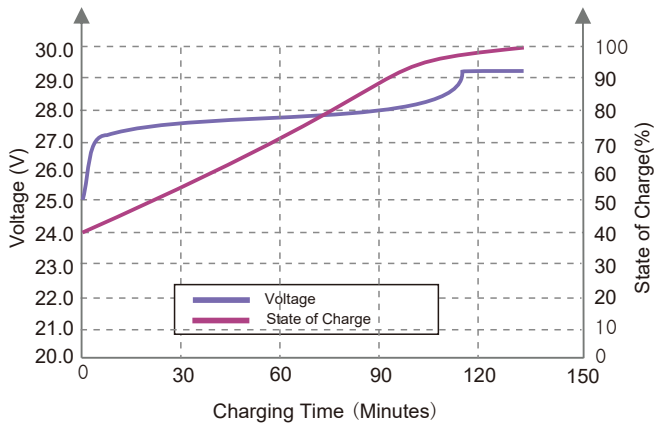
### Different Rate Discharge Curve (25°C)



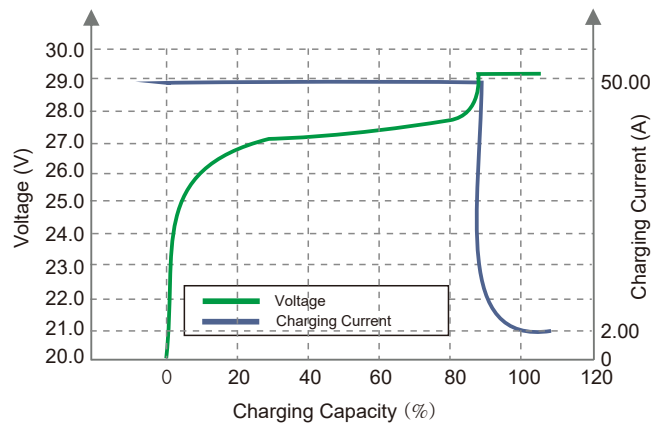
### Different Temperature Discharge Curve (0.5C)



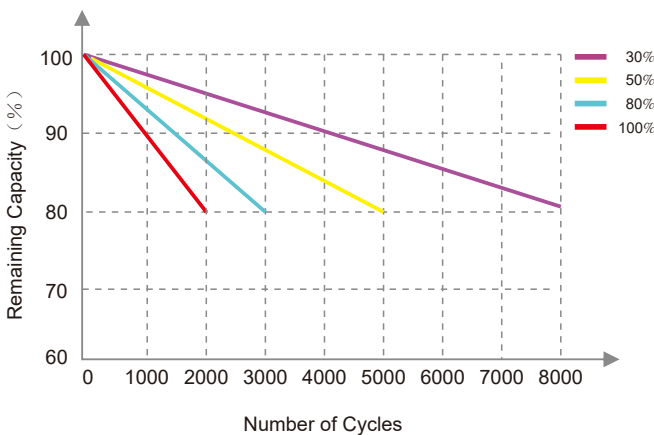
### State of Charge Curve (0.5C, 25°C)



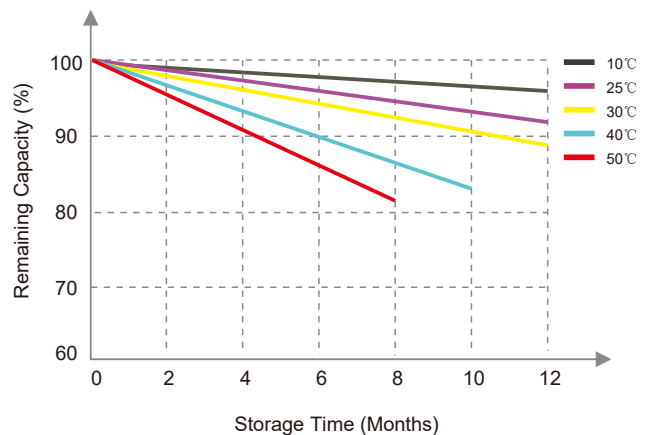
### Charging Characteristics (0.5C, 25°C)



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



### Different Temperature Self Discharge Curve

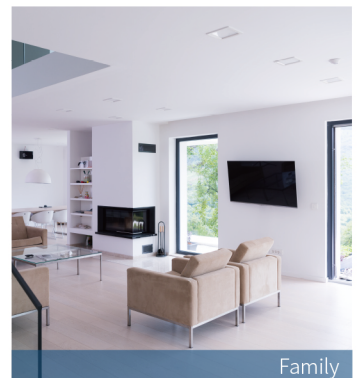
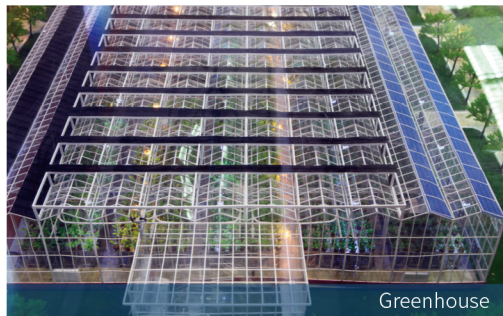
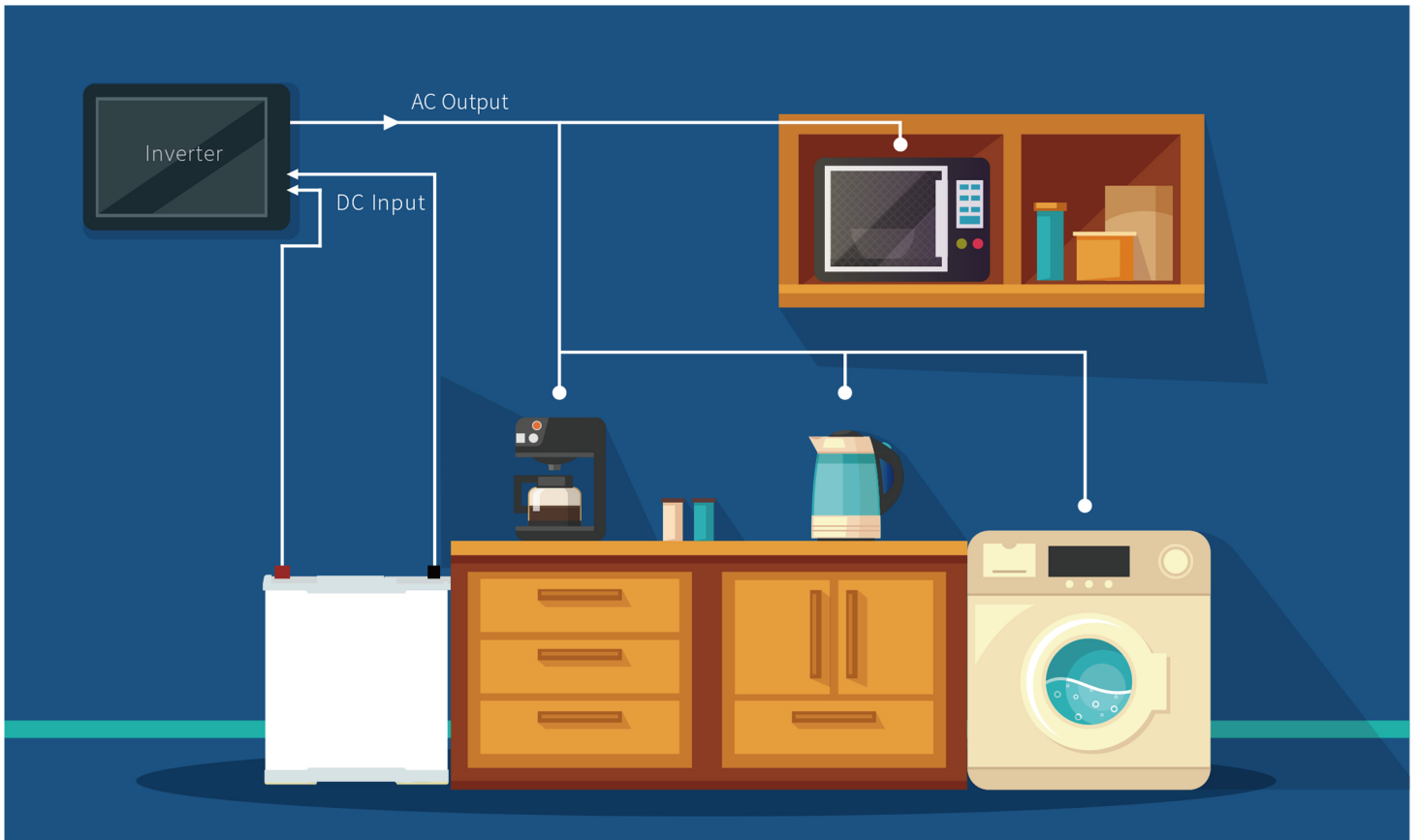




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SCENES TO BE USED





### BCT

### APPLICATION CASE



**5.12kWh**

New Zealand

**System Configuration**

- Solar Panel
- Inverter
- 5.12kWh Energy Storage Battery



**20kWh**

Shandong, China

**System Configuration**

- Solar Panel
- Inverter
- 20kWh Energy Storage Battery



**5.12kWh**

Beijing, China

**System Configuration**

- Solar Panel
- Inverter
- 5.12kWh Energy Storage Battery



**5.12kWh**

Nigeria

**System Configuration**

- Solar Panel
- Inverter
- 5.12kWh Energy Storage Battery