

TO A BETTER FUTURE

380V 54kW System

Standard Solution

380V/18kW 45kWh

Single system solution



In regions without electricity, solar panels can charge during the day, and stored energy can be used at night for lighting or other power needs.

In areas with high electricity prices, the system can be used for peak and valley energy storage: charge during off-peak times when electricity is cheaper, and use the stored energy during peak times when electricity is more expensive.

Suitable for charging piles larger than 7kW, industrial and commercial heating heat pumps, booster pumps, circulation pumps, irrigation pumps, electric lights and other projects.



Front view



Side view



Back view

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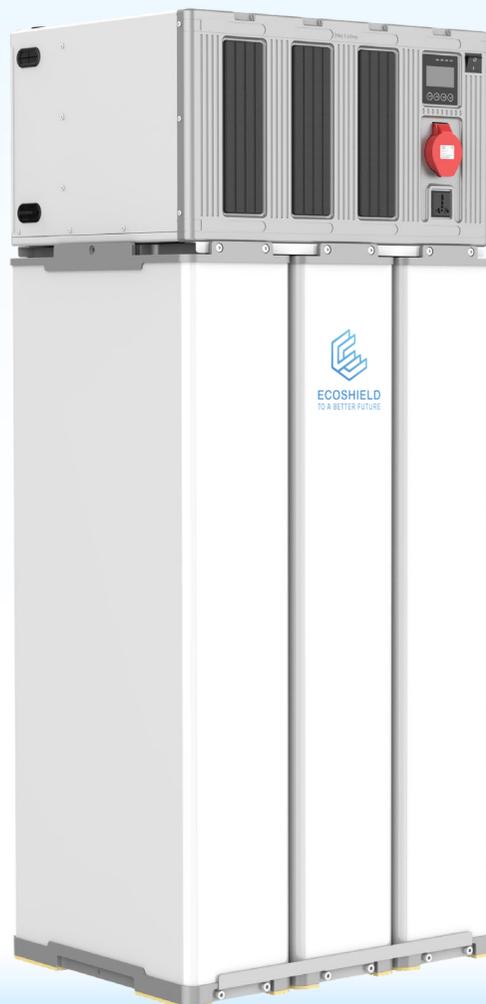
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Battery Parameter

| | |
|------------------|---------------------|
| Nominal capacity | 900Ah |
| Nominal voltage | 48V |
| Electricity(kWh) | 45kWh |
| Battery type | BYD cell grade A |
| Cycle life | 6000 cycles @80%DOD |

Inverter AC Output

| | |
|-----------------------------------|--|
| Max power (kw) | 18kW |
| Voltage (VAC) | 360/380/397/415 |
| Power factor (PF) | 1 |
| Frequency | 50/60Hz±0.1% |
| Switch time (ms) | 10(normal mode)/ 10(UPS mode) |
| Wave form | Pure sine wave |
| Overload capacity (batter mode) | 60s@102%~110% load;10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load |
| Max. Efficiency (batter mode)Max. | 93%@48VDC |
| Parallel Quantity | 3 groups(54kWh) |

Photovoltaic/AC input

| | |
|---|---|
| Rated input voltage (VAC) | 360/380/397/415;U+V+W+N+PE |
| Phase voltage range (VAC) | 90~280±3(normal mode);170~280±3(UPS mode) |
| Frequency (Hz) | 50/60(auto adaptive) |
| Solar charger type | MPPT |
| Max PV input current / input power | 18A/6000W ×3 |
| MPPT range@operating voltage per unit(VDC)Max | 120~450 |
| PV open circuit voltage per unit (VDC) | 500 |
| Max PV charge current per unit (A) | 80 |
| Max AC charge current per unit(A) | 80 |
| Max. charge current per unit(PV + AC)(A) | 80 |

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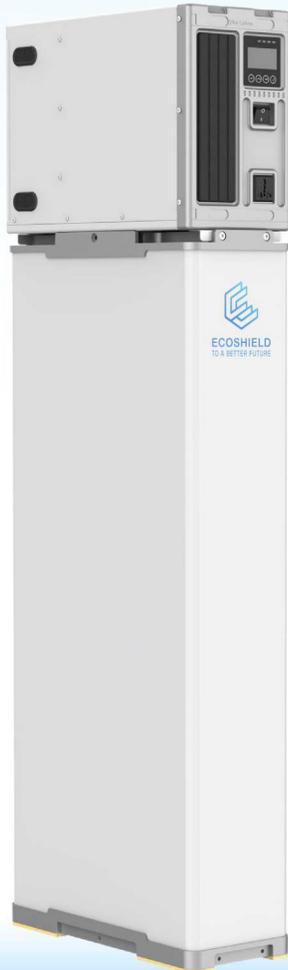
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Physical

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

Recommrned temperature range

10°C-40°C

Ttpe of BMS

JBD Brand

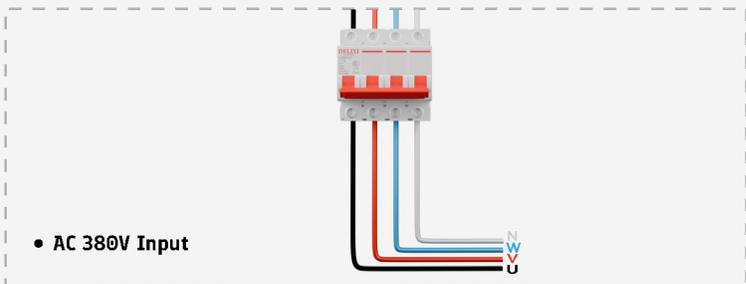
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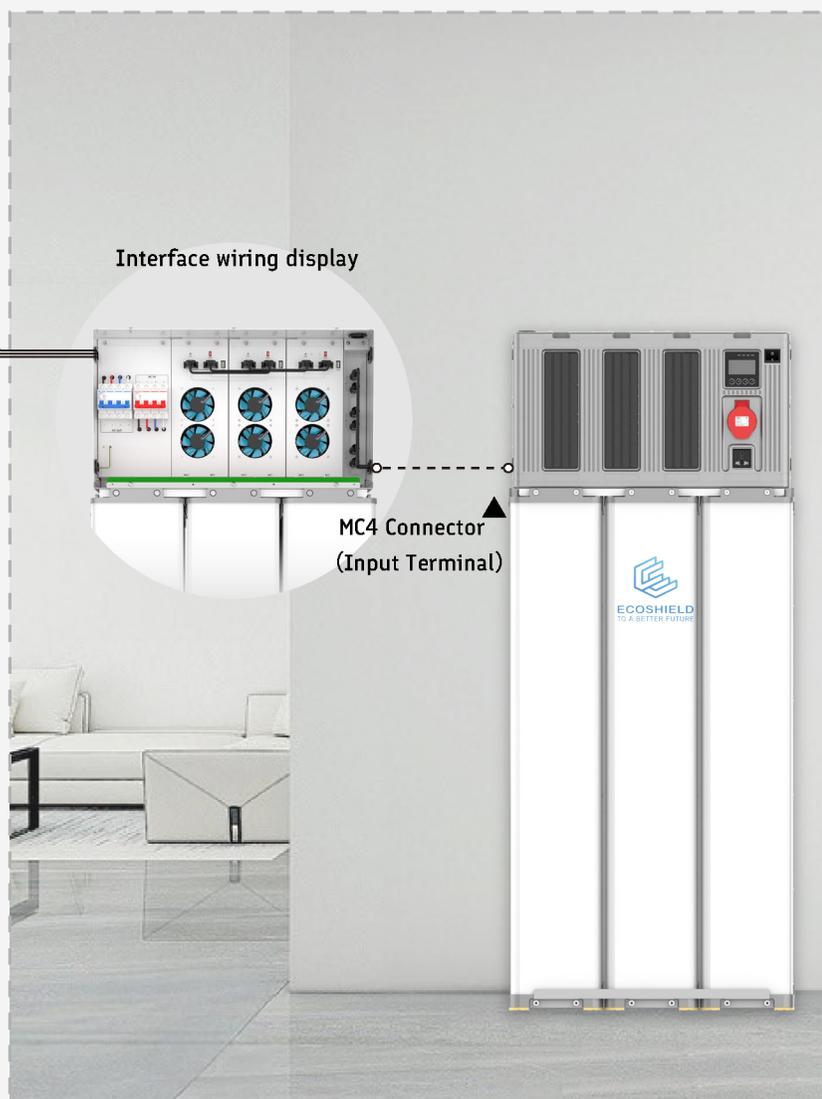
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System Connection Display

Input system



Charging, storage and inversion integration



Load side

