

TO A BETTER FUTURE

220V 54kW System

Standard Solution

220V/12kW 30kWh

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. It can meet the needs of small office routers running all day, computers working for several hours, small fans running, home air conditioners cooling and heating, and lighting fixtures turned on all day.



Front view



Side view



Back view

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Battery Parameter

Nominal capacity	600Ah
Nominal voltage	48V
Electricity(kWh)	30kWh
Battery type	BYD cell grade A
Cycle life	6000 cycles @80%DOD

Inverter AC Output

Max power (kw)Vo	12kW
ltage (VAC)	208/220/230/240
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. Efciency (batter mode)Max.	93%@48VDC
Parallel Quantity	4 groups(48kWh)

Photovoltaic/AC input

Rated input voltage (VAC)	208/220/230/240;L+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 ×2
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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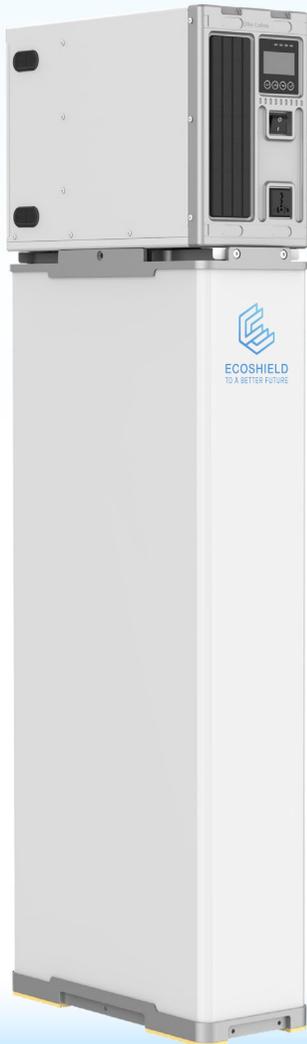
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Physical

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

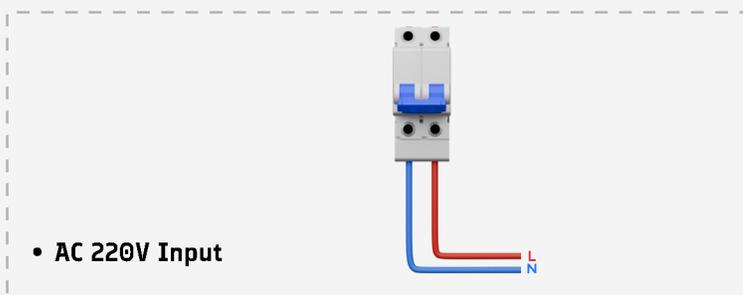
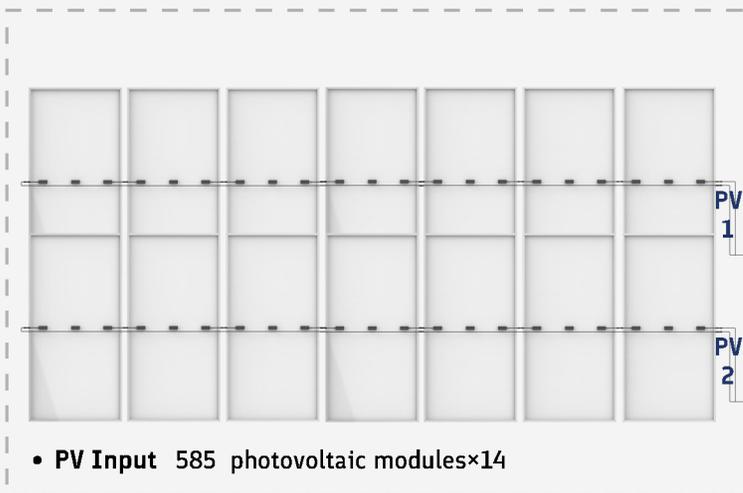


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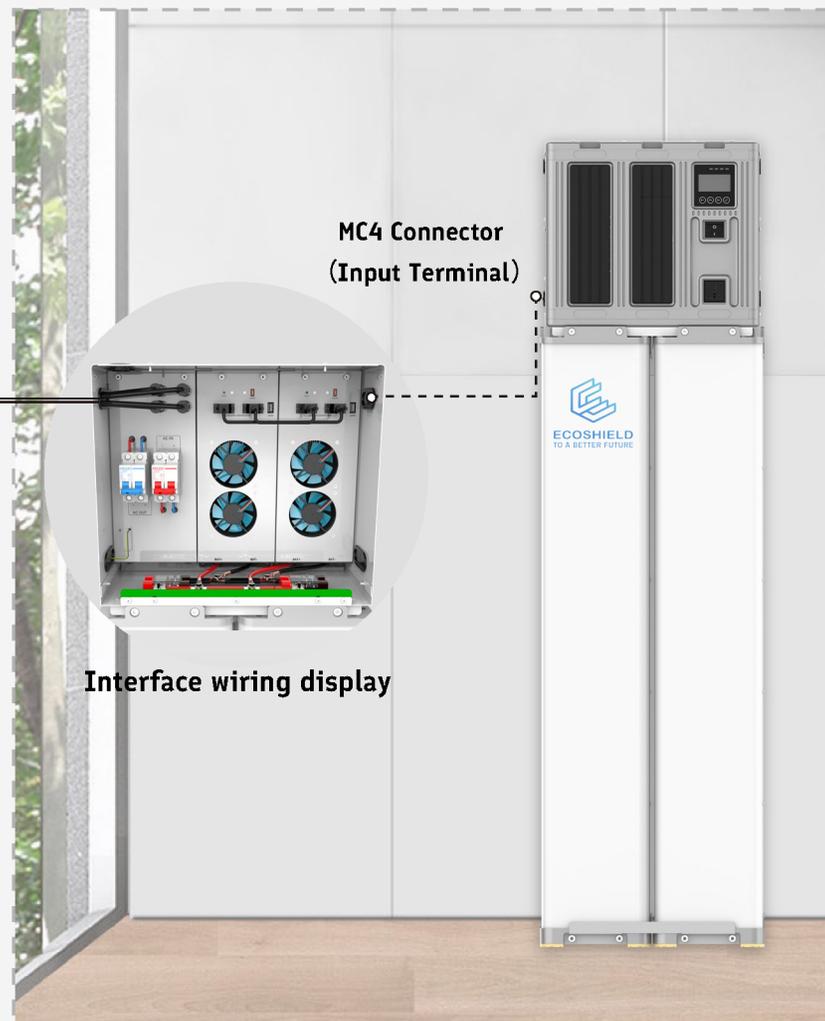
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System Connection Display

Input system



Charging, storage and inversion integration



Load side

