

TO A BETTER FUTURE

220V 54kW System

Standard Solution

220V/6kW 15kWh

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



TO A BETTER FUTURE

220V 54kW System

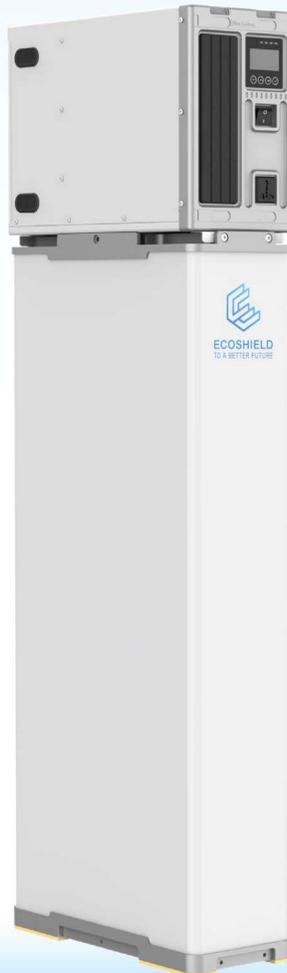
Standard Solution

220V/6kW 15kWh

Single system solution



ECOSHIELD
TO A BETTER FUTURE



Battery Parameter

Nominal capacity	300Ah
Nominal voltage	48V
Electricity(kWh)	15kWh
Battery type	BYD cell grade A
Cycle life	6000 cycles @80%DOD

Inverter AC Output

Max power (kw)	6kW
Voltage (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. Efficiency (batter mode)Max.	93%@48VDC
Parallel Quantity	9 groups(54kWh)

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
MPPT range@operating voltage (VDC)Max	120~450
PV open circuit voltage (VDC)	500
Max PV charge current (A)	80
Max AC charge current (A)	80
Max. charge current (PV + AC)(A)	80

TO A BETTER FUTURE

220V 54kW System

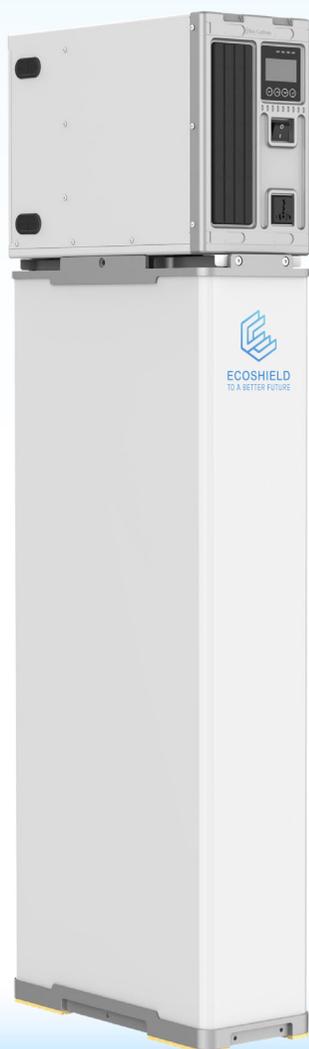
Standard Solution

220V/6kW 15kWh

Single system solution



ECOSHIELD
TO A BETTER FUTURE



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



ECOSHIELD
TO A BETTER FUTURE

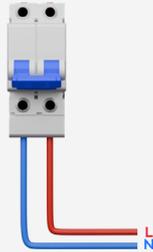
220V/6kW 15kWh

System Connection Display

Input system

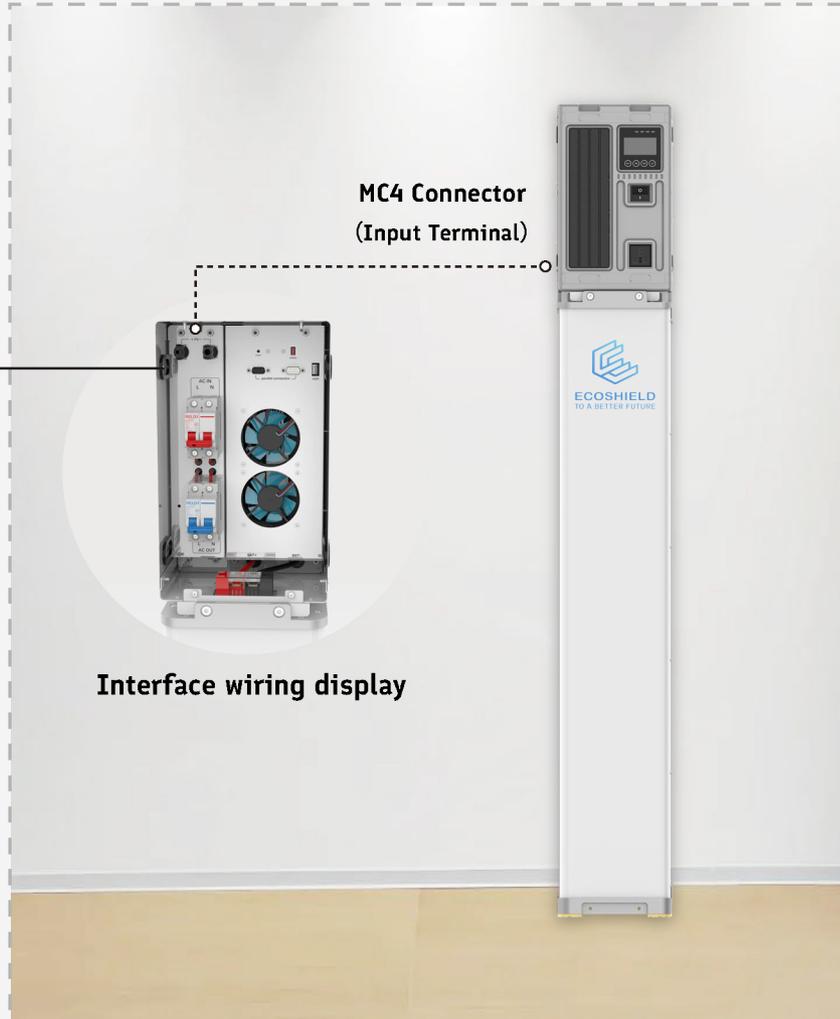


- PV Input 585 photovoltaic modules×7



- AC 220V Input

Charging, storage and inversion integration



MC4 Connector
(Input Terminal)

Interface wiring display

Load side

AC 220V Output



≤ 6kW load