TO A BETTER FUTURE

380V 54kW System

Standard Solution

380V/18kW 45kWh

Single system solution

ECOSHIELD
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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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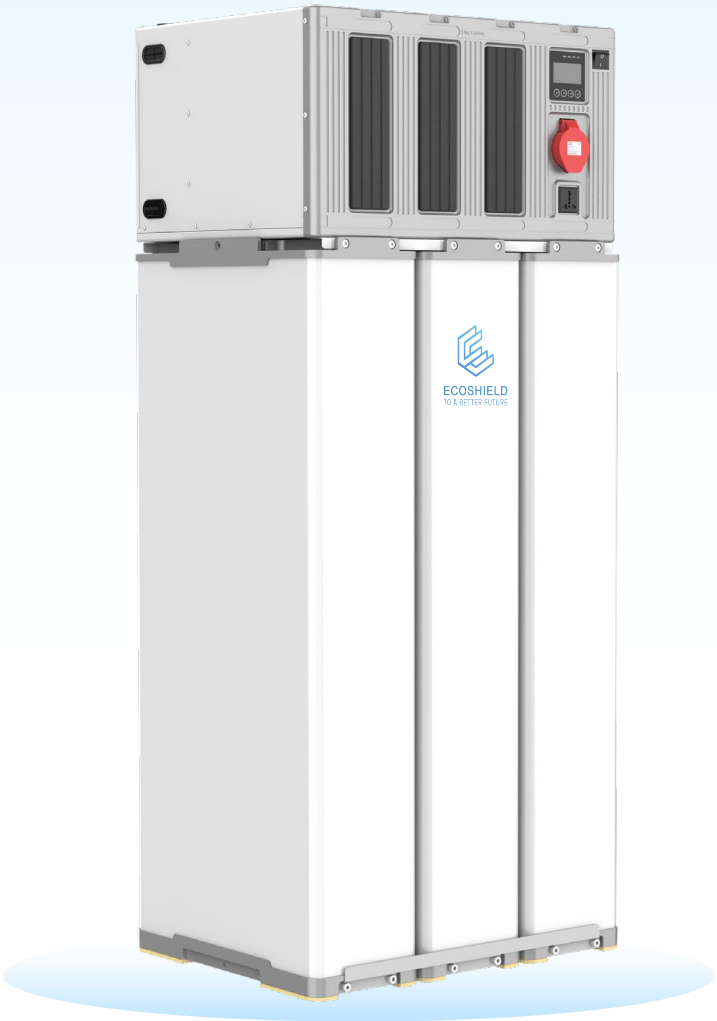

Battery Parameter	Nominal capacity	900Ah
	Nominal voltage El	48V
	ectricity(kWh)	45kWh
Inverter AC Output	Max power (kw)	18kW
	Voltage (VAC)	360/380/397/415
	Power factor (PF)	1
	Frequency	50/60Hz±0.1%
	Switch time (ms)	10(normal mode)/ 10(UPS mode)
	Wave form	Pure sine wave
	Overload capacity (batter mode)	60s@102%~110% load;10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
	Max. Efciency (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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System Connection Display

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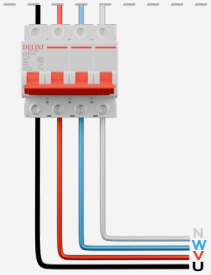
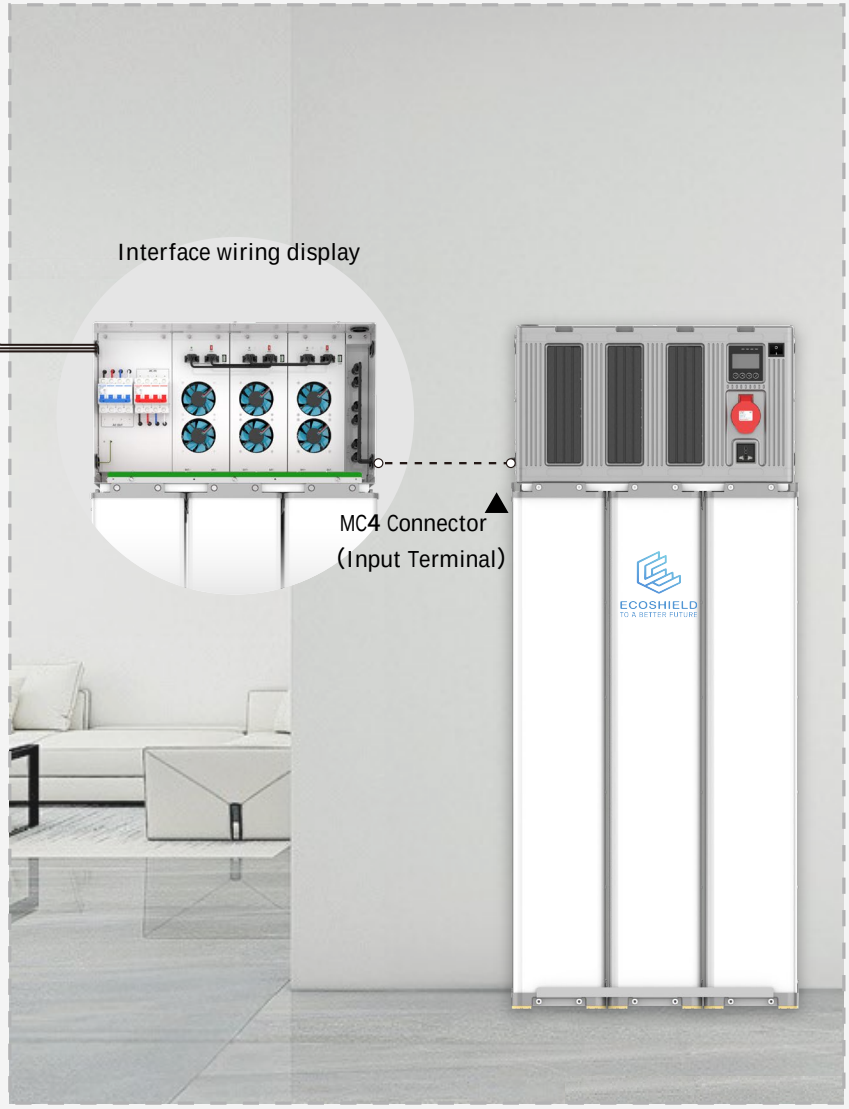
Input system

- **PV Input** 585 photovoltaic modules×21



- **AC 380V Input**

Charging, storage and inversion integration



Load side

AC 380V Output

⩽18kW load