

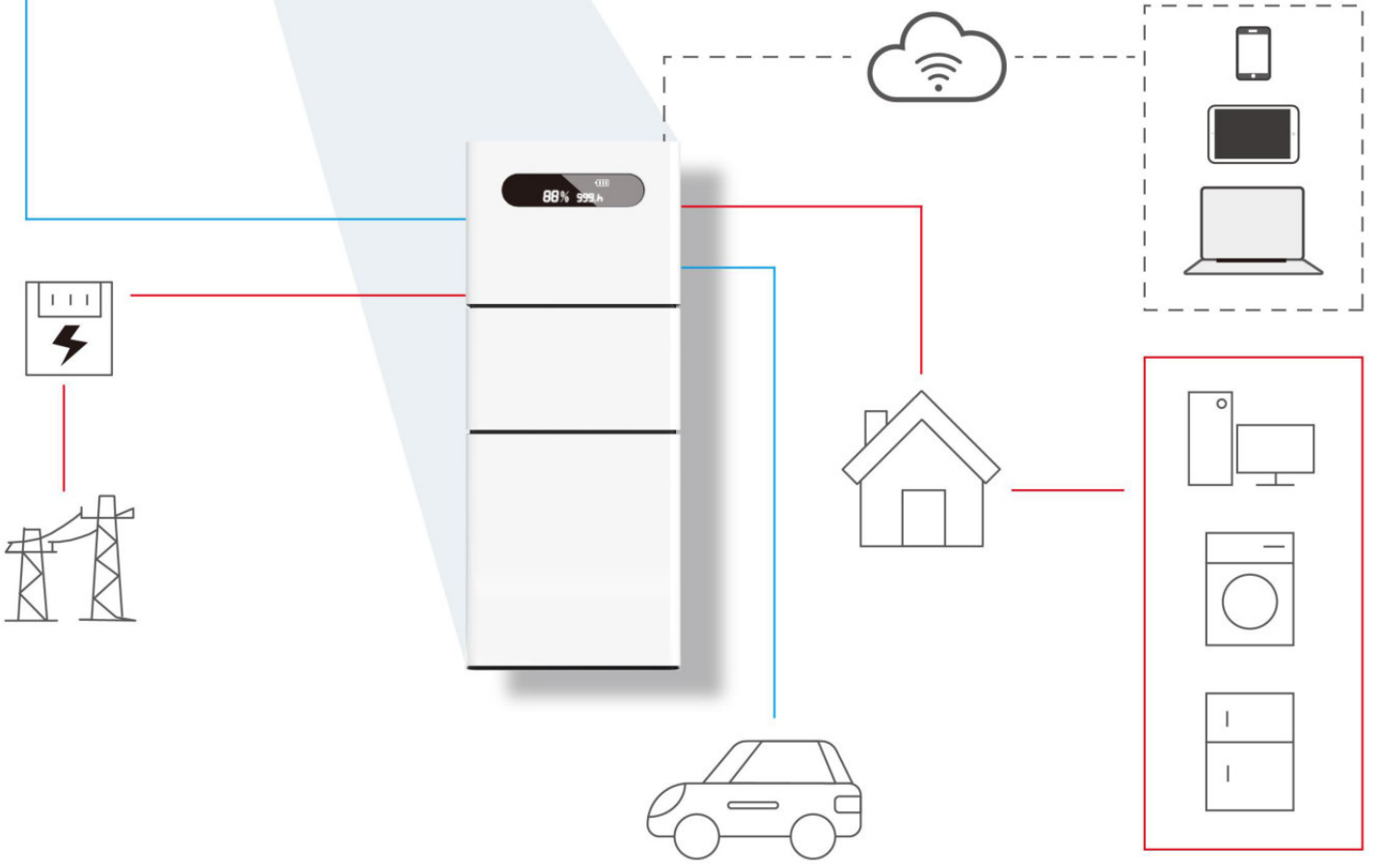
E-CUBE MODULAR

RESIDENTIAL ENERGY STORAGE SYSTEM



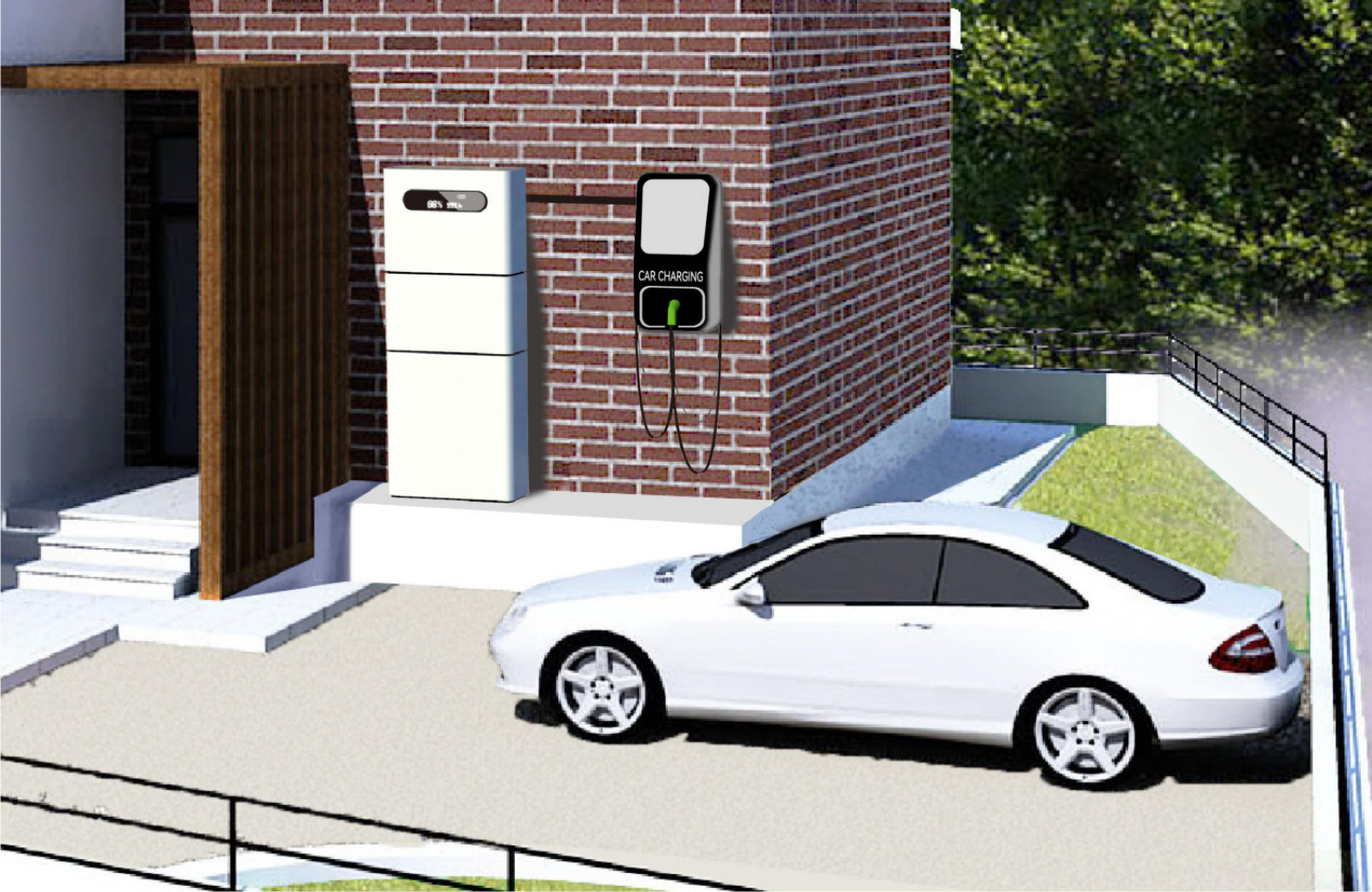
PRODUCT BROCHURE

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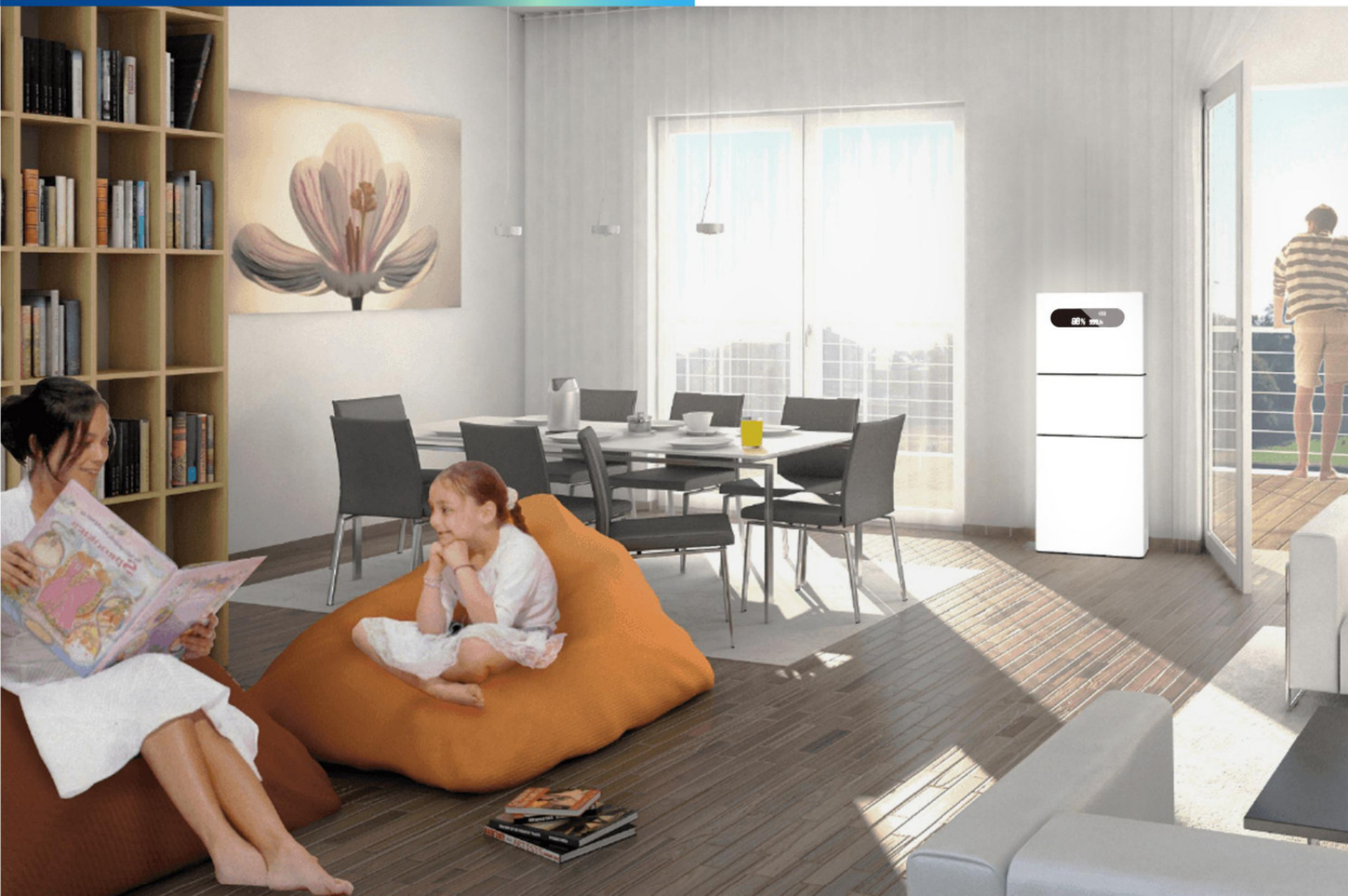


Energy storage solution

————— DC
————— AC
----- Communication



Application scenario



Product introduction



Residential ESS is composed of a bilingual hybrid inverter and high-voltage batteries for maximum round-trip efficiency and charge/discharge rate capacity. It is integrated in one compact and stylish unit for the easy installation.

Highest Efficiency Thanks to a Real High-Voltage Series Connection.



Smart Control Module

SCM equipped with high-voltage inverter module; SCM without high-voltage inverter module is compatible with Market Leading 1 and 3 phase Inverters.

Optional modules



WIFI
Bluetooth
Communication bar

Communication protocol

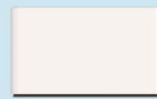


WIFI
2G/3G/4G/5G
Fast Ethernet

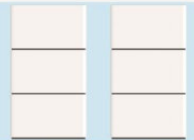


HF-R05

5kWh battery module

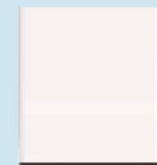


···Up to 6
5kWh~30kWh



HF-R10

10kWh battery module



···Up to 5
10kWh~50kWh



Flexible Capacity

5kWh/10kWh Modular Design
Can be freely combined,
expand the capacitance



Sufficient Electricity

Discharge deeper and
more optimized



Safe and Reliable

Lithium iron phosphate cell
Material safety
System safety



Long service life

Cycle life \geq 6000 s
beyond 10 years



Strong Compatibility

Capable of matching
a variety of inverters



Convenient installation

Modules are light and easy
to handle and assemble

Technical parameters

MODEL	HF-05	HF-10	HF-15	HF-20	HF-30
DC Battery Data					
Cell Type	LF3.2V/100Ah	LF3.2V/100Ah	LF3.2V/100Ah	LF3.2V/100Ah	LF3.2V/100Ah
Battery Pack Configuration	2.56kWh	2.56kWh	2.56kWh	2.56kWh	2.56kWh
Battery System Configuration	5.12kWh	10.24kWh	15.36kWh	20.48kWh	30.72kWh
Voltage Range	40~58.4V	80~116.8V	120~175.2V	160~233.6V	240~350.4V
Rated Charging/Discharging Current	50A/0.5C				
Max. Charging/Discharging Current	100A/1.0C				
On/Off-Grid Data					
Rated AC Power	3kW/5kW		10kW/15kW/20kW		
Rated Grid Voltage	200V,230V,240V(180V-270V)		380/400V		
Electrical Connection	L/N/PE		3L/N/PE		
Rated Grid Frequency	50Hz/60Hz				
Parallel Operation	NO				
Rated AC Current	13.6A/22.7A		15.2A/22.8A/30.4A		
Max. AC Current	15.7A/25A		16.7A/25.1A/33.5A		
Power Factor	0.8 lead~0.8 lag				
THD	<2%				
Mechanical Parameters					
Weight (kg)	70	115	160	205	295
Dimensions (W*D*H) (mm)	530*205*700	530*205*1000	530*205*1300	1100*205*1000	1100*205*1200
Ingress Rating	IP66				
Environmental Parameters					
Ambient Temperature	Charge: 0~55°C, Discharge: -20~55°C, Storage: -30~60°C				
Operating Humidity	5~95%,no condensing				
Altitude	≤ 2000m				
Mounting	Wall mounted/Floor standing		Floor standing		
Cycle Life	≥ 6000 cycles(@25±2°C, 0.5C / 0.5C, 90%DOD,70%EOL)				
Certifications	IEC62619, UL1973, UL9540, UN38.3, CE, RCM				
Communication with Portal	Wi-Fi/Blue tooth/2G/3G/4G/5G				