



# EP CUBE

More Flexible, More Intelligent Residential Energy Storage System **NEW**

## EP CUBE PRODUCT INTRODUCTION



EP Cube is a flexible and intelligent residential energy storage system intended for smart management of solar power generation and residential electricity consumption. Easy to install, the device is available for remote control, with energy capacity at your discretion. Small in size, it is safe and reliable.

### FEATURES



#### Flexible and convenient

Battery modules easy for transport and installation.  
Capacity options range from 6.6 kWh to 19.9 kWh.



#### Cost-saving

All-in-one design saving time and cost of installation.  
Automates generation and consumption, saving costs.



#### Power guarantee

Automated power supply during grid outage.  
High-power electrical appliances will function normally when the grid goes down.



#### Safe and reliable

Lithium iron phosphate batteries.  
IEC certified (in progress).  
IP 65 enclosure.



#### Compatible

Compatible with existing and new installed PV systems.  
Allows up to 16A DC PV input per MPPT.  
Compatible to maximum 7.4kW EV Chargers.



#### Intelligent management

Monitors generation, storage and consumption of electricity in real time.  
Gives a heads-up before extreme weather sets it.  
OTA (Over-The-Air) firmware upgrade.

## EP CUBE TECHNICAL SPECIFICATION



EP Cube HES-EU1-706G EP Cube HES-EU1-710G EP Cube HES-EU1-713G EP Cube HES-EU1-716G EP Cube HES-EU1-720G

### EP Cube Energy Storage System

Hybrid inverter	1				
Base	1				
Metering type	Single phase / Three phase				
Metering range	Max. 120 A				
Battery module	2	3	4	5	6
Total energy	6.66 kWh	9.99 kWh	13.32 kWh	16.65 kWh	19.98 kWh
European Efficiency	95.0%				
Max efficiency (battery to grid)	95.1%				
Max efficiency (PV to grid)	95.3%				
MPPT Efficiency	99.9%				

### Battery Module

Battery technology	Lithium-iron phosphate (LiFePO4)				
Total energy	3.33 kWh				
Nominal voltage	38.4 VDC				
Operation voltage	30 ~ 43.8 VDC				
Storage temperature	-20 °C ~ 45 °C less than 1 month / 0 °C ~ 35 °C less than 1 year				
Dimensions (W*H*D)	23.62" x 8.46" x 6.49" / 600*215*165 mm				
Weight	< 35kg				
Usable energy *	3.33 kWh				

### AC output (on-grid)

Nominal grid voltage	Single Phase / L+N+PE / 230 V <sub>AC</sub>				
Frequency	50 Hz				
Max. continuous power (Battery)	3 kW	5 kW	6 kW	6 kW	6 kW
Max. continuous power (Battery + PV) **	6 kW				
Max. continuous current (Battery)	13.0 A	21.7 A	26.1 A	26.1 A	26.1 A
Max. continuous current (Battery + PV) **	26.1 A				

### AC output (off-grid)

Nominal grid voltage	Single Phase / L+N+PE / 230 V <sub>AC</sub>				
Frequency	50 Hz				
Max. continuous power (Battery)	3 kVA	5 kVA	6.5 kVA	7.6 kVA	7.6 kVA
Max. continuous power (Battery + PV)	7.6 kVA				
Max. continuous current (Battery)	13.0 A	21.7 A	28.3 A	33.0 A	33.0 A
Max. continuous current (Battery + PV)	33.0 A				

### PV

MPPTs	2				
Number of inputs per MPPT	1				
Max. input power per MPPT	5 kW				
PV maximum input voltage	600 V <sub>DC</sub>				
MPPT voltage range	90 V <sub>DC</sub> - 550 V <sub>DC</sub>				
Max. current per MPPT	16 A				
Max. short circuit current per MPPT	20 A				

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### Cerification (in progress)

Safety	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477-1, IEC/EN 62619-1, IEC 60730 Annex H, IEC 60529, VDE 2510-50				
EMC	IEC 61000-6-3, IEC/EN 61000-6-1				
Energy Efficiency	IEC 61683				
Grid Standards	NTS 2.1 Type (A), UNE 217001, UNE 217002, RD244, RD647, CEI 0-21, VDE-AR-N 4105, DIN VDE V 0124-100, G99 type A, UKCA				

### Additional data

Protection rating	IP 65				
Noise	< 30dB @1m				
Dimensions	23.62" x 39.60" x 9.57" 600 x 1006 x 243 mm	23.62" x 48.07" x 9.57" 600 x 1221 x 243 mm	23.62" x 56.54" x 9.57" 600 x 1436 x 243 mm	23.62" x 65.00" x 9.57" 600 x 1651 x 243 mm	23.62" x 73.46" x 9.57" 600 x 1866 x 243 mm
System weight	245.9 lbs / 111.5 kg	322.9 lbs / 146.5 kg	400.2 lbs / 181.5 kg	477.4 lbs / 216.5 kg	554.6 lbs / 251.5 kg
Inverter, Battery module, Base weight	83.8 lbs / 38 kg, 77.2 lbs / 35 kg, 7.7 lbs / 3.5 kg				
Mounting options	Floor or wall mount				
Ambient operating temperature ***	14°F to 122°F / -10°C to 50°C				
Recommended operating temperature	32°F to 86°F / 0°C to 30°C				
Internet connection	Ethernet / WiFi				
Product color	Grey / White				

### Limited warranty

System warranty ****	> 80% capacity, up to 10 years or 6,000 cycles
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### Notes

- \* Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25°C, at the beginning of life.
- \*\* The max AC output power is adjustable according to local certification rules via EP Cube application.
- \*\*\* Performance may be de-rated in extreme operating temperatures.
- \*\*\*\* Battery capacity warranty up to 10 years or 6,000 cycles (whichever occurs first)

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