

EP CUBE

More Flexible, More Intelligent Residential Energy Storage System



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

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Flexible and convenient

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



Power guarantee

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



Compatible

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



Cost-saving

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



Safe and reliable

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



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 TECHINICAL 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

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Hybrid inverter	1							
Base Metering type		c.	1 Single phase (Three phase	~				
Vetering type	Single phase / Three phase							
Vetering range	Max. 120 A							
Battery module	2	3	4	5	6			
Fotal 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)							
Fotal energy	3.33 kWh							
Nominal voltage	38.4 V _{DC}							
Operation voltage	$30 \sim 43.8 \text{ V}_{\text{DC}}$							
Storage temperature	-20°C \sim 45°C less than 1 month / 0°C \sim 35°C less than 1 year							
Dimensions (W*H*D)	23.62" x 8.46" x 6.49" / 600 x 215 x 165 mm							
Veight			< 35 kg					
Jsable energy *			3.33 kWh					
AC output (on-grid)								
Nominal grid voltage	Single Phase / L+N+PE / 230 V _{AC}							
requency			50 Hz					
Max. continuous power (Battery)	3 kW	5 kW	6 kW	6 kW	6 kW			
/lax. 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			
/lax. continuous current (Battery + PV) **			26.1 A					
C output (off-grid)								
Nominal grid voltage		Sin	gle Phase / L+N+PE / 230	V _{AC}				
Frequency			50 Hz					
Max. continuous power (Battery)	3 kVA	5 kVA	6.5 kVA	7.6 kVA	7.6 kVA			
Nax. continuous power (Battery + PV)			7.6 kVA					
Nax. continuous current (Battery)	13.0 A	21.7 A	28.3 A	33.0 A	33.0 A			
/lax. continuous current (Battery + PV)			33.0 A					
V								
/PPTs			2					
lumber of inputs per MPPT			1					
lax. input power per MPPT	5 kW							
V maximum input voltage	600 V _{DC}							
MPPT voltage range	90 V _{pc} - 550 V _{pc}							
Max. current per MPPT	16 A							
Max. short circuit current per MPPT			20 A					

EP CUBE TECHINICAL SPECIFICATION

Cerification (in progress)

Gernication (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, UK							
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							

Notes

Test conditions: 100% depth of discharge (DoD), 0.2 C 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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