

EP CUBE^{NEW}

More flexible, more intelligent Residential Energy Storage System



The EP Cube is a flexible and intelligent all-in-one home energy storage solution for new and existing solar installations. With unrivalled flexibility and intelligent software management, it is designed to offer a quick and easy installation, simplified logistics, and cost-savings all round to make life easier for homeowners and installers.

FEATURES



Flexible and convenient

- · Modular battery makes transport and installation easy.
- Capacity options from 10 kWh to 40 kWh.



Power guarantee

- Automated power supply during grid outage with a smart gateway (optional).
- · High-power electrical appliances continue to function normally in case of grid blackout.



Perfect compatibility

- Compatible with existing and newly installed PV systems.
- 4 MPPTs, each allowing one string of up to 17A Impp.



Cost-saving

- · All-in-one design saves installation time and cost.
- · Automated generation and consumption.



Safe and reliable battery

- · LFP technology.
- Meets the highest certification standards.
- · IP67 protection.



Intelligent management

- Monitors generation, storage and consumption of electricity in real time.
- · Automatic weather alerts help actively manage stored capacity.
- OTA (Over-The-Air) firmware upgrade.

EP CUBE (Three-phase) TECHNICAL SPECIFICATION







EP Cube2 IEC-T-15G



EP Cube2 IEC-T-20G



EP Cube2 IEC-T-25G



EP Cube2 IEC-T-30G

System components					
Type of inverter	Hybrid bidirectional				
Number of inverters	1				
Number of battery modules ²	2	3	4	5	6 (up to 8)
Nominal capacity ³	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh (up to 40kWh)
Max continuous power (battery only)	5 kW	7 kW	10 kW	12 kW	12 kW
Dimensions (WxHxD)	600 x 1302 x 285 mm ⁴	600 x 1568 x 285 mm ²	600 x 1834 x 285 mm ⁴	1300 x 1302 x 285 mm	n ⁵ 1300 x 1302 x 285 mm
System weight	131.5 kg	173.5 kg	215.5 kg	254 kg	296 kg
Base	1 (Long base will be provided for 5 or more battery modules)				
Hybrid inverter - DC Input (PV)					
Max PV input power			24 kW _p		
MPPTs	4				
Number of inputs per MPPT			1		
Max input power per MPPT			12 kW _p		
Max PV input voltage			1000 V _{DC}		
MPPT voltage range			85 V _{DC} - 850 V _{DC}		
Max MPPT input current			17 A		
Max MPPT short current			24 A		
MPPT start-up voltage			80 V _{DC}		
Hybrid inverter - AC On-grid					
Rated AC output voltage	Thre	e phase / 3 L / N / PE / 40	0 V _{AC}		
Rated grid frequency			50 Hz		
Max continuous power (battery + PV) 6			10/12 kVA		
Max continuous AC current per phase (battery + PV) 7		14.5/17.4 A			
Output power factor	~1 (adjustable from 0.8 leading to 0.8 lagging)				
Total harmonic distortion @12 kW			< 3% (rated power)		
Hybrid inverter - AC Back-up with	a smart gateway (opt	tional)			
Rated AC output voltage	Three phase / 3 L / N / PE / 400 V $_{\scriptscriptstyle AC}$				
Rated output frequency		50 Hz			
Max continuous power (battery + PV)			12 kVA		
Max continuous AC current per phase ((battery + PV)		17.4 A		
Switching-time			< 20ms		
Peak off-grid power (PV supplied)		2 times overload (10s) / 1.2 times overload (5Min)			
Back-up Connections		Three	ohase (support unbalance	d load)	
Battery module					
Cell technology			LiFePO ₄		
Voltage range $43.2 V_{DC} \sim 58.4 V_{DC}$					
Nominal voltage	51.2 V				
Weight	< 42 kg				
Dimensions (WxHxD)	ns (WxHxD) 600 x 266 x 200 mm				
IP Rating			IP 67 (stacked together)		

System				
Applications	Self consumption / TOU / Backup(Optional)			
Type of inverter	Hybrid bidirectional			
Inverter dimension (WxHxD)	600 x 700 x 285 mm			
Inverter weight	48 kg			
Inverter topology	Transformerless			
DC battery protection	MCB			
Noise	< 30dB@2m			
IP Rating	IP 65			
Cooling type	Natural cooling			
Operating altitude	3,000 m			
Operating relative humidity	95% non-condensing			
Operating temperature range	- 20°C to 50°C 89			
Recommended operating temperature	0°C to 30°C			
Storage temperature	-20°C \sim 0°C and / or 35°C \sim 50°C less than 1 month / 0°C \sim 35°C up to 1 year			
Display	LED & APP			
Installation method	Floor mounted (optional: wall mounted) ¹⁰			
Communication interface	WIFI, RS485, CAN, IO, Ethernet			
Protection				
Battery Input Reverse / Polarity Protection	Integrated			
Over load Protection (DC-AC side)	Integrated			
AC Short Circuit Current Protection / Output Short Circuit Prote	ction Integrated			
Output Over Current Protection	Integrated			
DC (PV+Battery) Short Circuit Current Protection	Integrated			
AC Surge Protection: Grid and Back-up (SPD Type II)	Integrated			
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Ground Fault Monitoring	Integrated			
Temperature Protection (Inverter + Battery)	Integrated			
Integrated DC Switch (PV - Disconnector)	Integrated			
Remote stop	Integrated			
Warranty				
Inverter	10 years			
Battery	> 80% capacity, up to 10 years or 6,000 cycles			
Accessories 11	2 years			
Certifications				
	/ EN 62109-2, IEC / EN 62477-1, IEC / EN 62619-1, ISO 13849, IEC 60529, VDE 2510-50, UN 38.3, IEC 63056			
EMC	IEC 61000-6-3, IEC / EN 61000-6-1			
Energy efficiency	IEC 61683			
Grid standards	CEI 0-21, VDE-AR-N 4105, DIN VDE V 0124-100			

Notes

- 1. An extra smart gateway is needed to support the backup mode.
- 2. Up to 8 pack.
- 3. Up to 40kWh.
- 4. Single tower.
- 5. Two tower.

- 6. Rated AC output power is adjustable according to the grid code of each country.
- 7. Rated AC output current is according to the grid code of each country.
- 8. Performance may be de-rated at extreme operating temperatures.
- 9. Charging temperature range is 0°C to 50°C.
- 10. For more details, please check with the installation manual.
- 11. As per Limited Warranty Statement.

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