CanadianSolar

EP CUBE



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 30 kWh.

Cost-saving

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

Power guarantee

- Automated power supply during grid outage.
- High-power electrical appliances continue to function normally in case of grid blackout.

Safe and reliable battery

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

Perfect compatibility

- Compatible with existing and newly installed PV systems.
- Allows up to 16A DC PV input per MPPT.
- Compatible with maximum 7.6kW EV Chargers.

Intelligent management

- Monitors generation, storage and consumption of electricity in real time.
- OTA (Over-The-Air) firmware upgrade.

Eternalplanet Energy Australia Pty Ltd
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EP CUBE TECHNICAL SPECIFICATION



	EP Cube 1 AS-O-10G	EP Cube 1 AS-O-15G	EP Cube 1 AS-O-20G	EP Cube 1 AS-O-25G	EP Cube 1 AS-O-30G
System components					
Type of inverter			Hybrid bidirectional		
Number of inverters			1		
Number of battery modules	2	3	4	5	6
Base			1		
Hybrid inverter - DC Input (PV)					
Max PV input power			10 kW_p		
MPPTs			2		
Number of inputs per MPPT			1		
Max input power per MPPT			5 kW_p		
Max PV input voltage			550 V_{DC}		
MPPT voltage range			90 V_{DC} - 500 V_{DC}		
Max MPPT input current			16 A		
Max MPPT short current			20 A		
MPPT start-up voltage			120 V_{DC}		
Hybrid inverter - AC On-grid					
Rated AC output voltage			Single phase / L+N+PE / 230 V_{AC}		
Rated grid frequency			50 Hz		
Max continuous power (battery + PV)			7.6 kVA		
Max continuous current (battery + PV)			33 A		
Output power factor			~1 (adjustable from 0.8 leading to 0.8 lagging)		
Total harmonic distortion @7.6 kW			< 3% (rated power)		
Hybrid inverter - AC Back-up					
Rated AC output voltage			Single Phase / L+N+PE / 230 V_{AC}		
Rated output frequency			50 Hz		
Max continuous power (battery + PV)			7.6 kVA		
Max continuous current (battery + PV)			33 A		
Switching-time			< 30ms [1]		
Battery module					
Cell technology			$LiFePO_4$		
Number of battery modules	2	3	4	5	6
Nominal capacity [2]	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh
Max continuous power (battery only)	5 kW	7.6 kW	7.6 kW	7.6 kW	7.6 kW
DOD			100% [3]		
Voltage range			43.2 V_{DC} ~ 58.4 V_{DC}		
Nominal voltage			51.2 V_{DC}		
Weight			43 kg		
IP Rating			IP 67 (stacked together)		

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System					
Applications	Self consumption / TOU / Backup				
Type of inverter	Hybrid bidirectional				
Inverter dimension (WxHxD)	600 x 505 x 243 mm				
Inverter weight	37 kg				
Inverter topology	Transformerless				
Protective class	I				
Overvoltage category	DC II, AC III				
Active anti-islanding protection	Frequency shift				
DC battery protection	MCB				
Dimensions (WXHXD)	600 x 1111 x 243 mm	600 x 1378 x 243 mm	600 x 1645 x 243 mm	1350 x 1111 x 243 mm	1350 x 1299 x 243 mm
System weight	122 kg	164 kg	206 kg	263 kg	306 kg
Noise	< 30 dB				
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 [4]				
Recommended operating temperature	0°C to 30°C				
Storage temperature	-20°C ~ 0°C and / or 35°C ~ 50°C less than 1 month / 0°C ~ 35°C up to 1 year [5]				
Display	LED & APP				
Installation method	Floor mounted (optional: wall mounted)				
Communication interface	WiFi, ethernet, RS485, CAN, IO				
Protection					
Battery Input Reverse / Polarity Protection	Integrated				
Over load Protection (DC-AC side)	Integrated				
AC Short Circuit Current Protection /Output Short Circuit Protection	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	2 years				

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Certifications	
Safety	AS 60947.3:2023, IEC 62040-1, AS 62040.1, IEC 62109-1:2010, IEC 62109-2:2011, IEC 62619:2022, AS 61439.1, AS 61439.3, Cyber Security Rules 2025, UN 38.3
EMC	EN IEC 61000-6-1, EN IEC 61000-6-3
Grid Standards	AS 4777.2:2020+A1+A2, CSIP-AUS
Accessories	**Model**
EP Cube Smart Meter	EP Cube 1PHM1
EP Cube Wall-mount Kit	EPAU2-Wall mount bracket1

Notes

1. For reactive loads; time will be shorter for active loads.
2. Test conditions: 100% depth of discharge (DOD), 0.2C rate charge and discharge at 25°C, at the beginning of life. For one battery pack installation (5kWh capacity), minimum reserved SOC 15% is recommended for battery health.
3. EP Cube will maintain a minimum SOC of 10% during off-grid operation.
4. Temp. range 0°C to 50°C for batt. charge / Temp. range -20°C to 50°C for batt. discharge / Performance will vary based on temperature and SOC level.
5. Refer to the installation manual and follow the storage requirements and guidelines.

This datasheet is only for products certified in specific countries. Specifications are subject to change without prior notice.
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Country of manufacture: China, Designed and manufactured by Eternalplanet
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