CanadianSolar

EP CUBE



EP CUBE

More flexible, more intelligent Residential Energy Storage System *NEW*

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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, scalable up to 200kWh by paralleling up to 5 units

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 Imp

Cost-saving

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

Safe and reliable battery

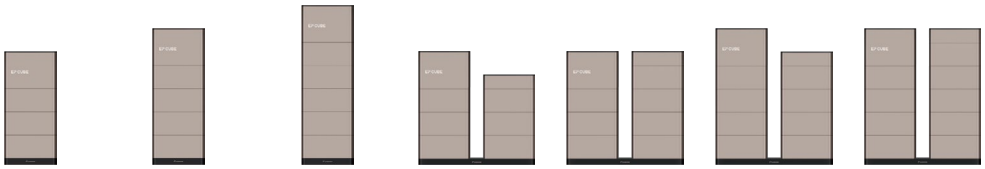
- LFP technology
- Meets the highest certification standards
- IP67 protection

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

Eternalplanet Energy Australia Pty Ltd
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EP CUBE (Three-phase) TECHNICAL SPECIFICATION



	EP Cube2 AS-T-10G	EP Cube2 AS-T-15G	EP Cube2 AS-T-20G	EP Cube2 AS-T-25G	EP Cube2 AS-T-30G	EP Cube2 AS-T-35G	EP Cube2 AS-T-40G
System components							
Type of inverter	Hybrid bidirectional						
Number of inverters	1						
Number of battery modules	2	3	4	5	6	7	8
Nominal capacity	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh	35 kWh	40 kWh
Max continuous power (battery only)	5 kW	7 kW	10 kW	12 kW	12 kW	12 kW	12 kW
Dimensions (WxHxD mm)	600 x 1299 x 285	600 x 1566 x 285	600 x 1833 x 285	1350 x 1299 x 285	1350 x 1299 x 285	1350 x 1566 x 285	1350 x 1566 x 285
System weight	137 kg	180 kg	223 kg	274 kg	317 kg	360 kg	403 kg
Base	1 (Long base can 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	Three phase / 3 L / N / PE / 400 V_{AC}						
Rated grid frequency	50 Hz						
Max continuous power (battery + PV)	12 kVA						
Max continuous AC current per phase (battery + PV) [1]	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 (optional)							
Rated AC output voltage	Three phase / 3 L / N / PE / 400 V_{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	< 20 ms						
Peak off-grid power（PV supplied）	1.2 times overload (5 Min)						
Back-up Connections	Three phase (support unbalanced load)						
Battery module							
Cell technology	$LiFePO_4$						
Voltage range	43.2 V_{DC} ~ 56.8 V_{DC}						
Nominal voltage	51.2 V						
Nominal/Usable Battery Capacity	5 kWh						
Battery Depth of Discharge	100%						
Battery Max Charge/Discharge Current	60 A						
Weight	43 kg						
Dimensions (WxHxD mm)	600 x 267.4 x 200.5						
IP Rating	IP 67 (stacked together)						

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System	
Applications	Self consumption / TOU / Backup(Optional)
Type of inverter	Hybrid bidirectional
Inverter Max Efficiency	96.5%
Inverter dimension (WxHxD mm)	600 x 695 x 285
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 [2]
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
Display	LED & APP
Installation method	Floor mounted (optional: wall mounted) [3]
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 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	Frequency shift
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
Protective class	I
Overvoltage category	DC II, AC III
Warranty	
Inverter	10 years
Battery	> 80% capacity, up to 10 years or 6,000 cycles
Accessories [4]	2 years
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

Notes

1. Rated AC output current is according to the grid code of each country.
2. Performance may be de-rated at extreme operating temperatures.
3. For more details, please check with the installation manual.
4. As per Limited Warranty Statement.

Specifications are subject to change without prior notice. Unauthorized copying and reprinting of this datasheet is prohibited.

Country of manufacture: China, Designed and manufactured by Eternalplanet.
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