



EP CUBE 2.0

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

FEATURES



Integrated hybrid inverter
Supports DC and AC PV input
Suitable for new and retrofit PV systems



Modular and stackable design, easy to install and transport
Capacity options from 5kWh to 40kWh per EP Cube unit and up to 120kWh for full system.



Comprehensively guarantee household power supply
Seamlessly switch to backup in case of power outage



Lithium iron phosphate batteries
UL 9540A unit level thermal runaway test certification



Supports Wi-Fi, Cellular and Ethernet network connection
Remotely monitor power generation and consumption
OTA firmware update, continuous function improvement



Compatible with generators for long-term power outages
Can be connected to 2@40A Level 2 EV chargers
100% green power for electric vehicles

EP CUBE SMART GATEWAY



SGNA2-200GX

Grid and load

Nominal grid voltage	240/208V _{AC}
Grid Type	Split phase 2W+N+PE
Frequency	60 Hz
Max current	200A
Non-Backup port	125A
Short circuit current protection	25 kA*

Microgrid interconnection

Rated current	200A
Switchover time (on-grid / off-grid)	Seamless

EP Cube hybrid interface **

Output voltage	120/208V, 120/240V
Overcurrent protection	60A

AC extend interface

Output voltage	120/208V, 120/240V _{AC}
Max current	80A
Generator control request	Yes
Generator start type	2-wire start (I/O)
EV Charger communication	RS485
Maximum number of smart breakers supported	5

Communication Module

Internet connection	Wi-Fi, Ethernet, Cellular (LTE, 4G)
User interface	EP Cube APP (Android & IOS), HMI

Safety & compliance

Certifications	UL1741, ICES-003 (Class B), FCC Part 15 (Class B), FCC ID, IEEE 693-2005 (high), UL 67, UL 896A, UL1741-CRD-PCS CSA C22.2#205, CSA C22.2#29, CSA C22.2#0.19, UL 916
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General parameters

Enclosure	NEMA 3R
Outlet Type	Bottom, Back, Top, Side
Operating Noise @1m	<30dB(A)
Dimensions(L*H*W)	560*720*170mm (22.1*28.4*6.7 in)
Weight	55lbs/25kg
Mounting options	Wall mount
Max. elevation	9,843 ft / 3,000 m
Ambient operating temperature	-40 °F to 122 °F / -40 °C to 50 °C

Limited warranty

System warranty	10 years
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Notes

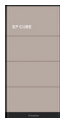
- * Refer to the installation manual for allowable main and branch breakers combinations.
- ** The Smart Gateway includes one pre-installed EP Cube hybrid breaker, up to three hybrid breakers can be installed.

Contact: CSI SOLAR (USA) CO., LTD. Add: 1350 Treat Blvd. Suite 500, Walnut Creek, CA 94598, USA Tel: +1 800 761 2990 E-mail: service.epcube@csisolar.com

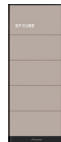
EP CUBE HYBRID INVERTER + BATTERIES



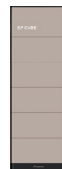
EP Cube2 UL-S-5G



EP Cube2 UL-S-10G



EP Cube2 UL-S-15G



EP Cube2 UL-S-20G

EP Cube system				
Hybrid inverter			1	
Battery module	1	2	3	4
Base			1	
Hybrid inverter				
MPPTs			6	
Input current		I _{mp} 16A / I _{sc} 25A per MPPT		
Withstand PV Voltage			600V _{DC}	
PV DC Input Voltage Range			60 — 550V _{DC}	
PV DC MPPT Voltage Range			60 — 480V _{DC}	
Nominal grid voltage			208V/240V _{AC}	
Frequency			60Hz	
Black start			Yes	
Maximum AC output, on-grid, 240V		5.8 kW / 7.6 kW / 9.6 kW / 11.5 kW		
Maximum AC output, on-grid, 208V		5.0 kW / 6.6 kW / 9.9 kW		
Overcurrent Protection Device		30A / 40A / 50A / 60A		
Maximum inverter CEC efficiency		96.5%		
Imbalance for split-phase loads		100%,maximum 5.75kW for each phase		
Communication Module				
Internet connection		Wi-Fi, Ethernet, Cellular (LTE, 4G)		
User interface		EP Cube APP (Android & IOS), HMI		
Energy storage and power				
Total energy	5.0 kWh	10.0 kWh	15.0 kWh	20.0 kWh
Maximum Battery Only Continuous Charge Power/Current	3kW/12.5A(240V) 3kW/14.4A(208V)	5kW/20.8A(240V) 5kW/24.0A(208V)	6kW/25A(240V) 6kW/28.8A(208V)	6kW/25A(240V) 6kW/28.8A(208V)
Maximum Battery Only Continuous Discharge Power/Current	3kW/12.5A(240V) 3kW/14.4A(208V)	7.6kW/31.2A(240V) 7.6kW/36.5A(208V)	11.5kW/48A(240V) 9.9kW/48A(208V)	11.5kW/48A(240V) 9.9kW/48A(208V)
Maximum Continuous Discharge Power/Current(full sun)		11.5kW/48A(240V), 9.9kW/48A(208V)		
LRA(1s)		Up to 185A		
Safety & compliance				
Protections		Integrated arc fault circuit interrupter (AFCI), PV RSD		
Certifications		UL 1699B, UL 1741-SB, IEEE 1547, IEEE 1547-1, IEEE 2030.5, UL 1998, UL 1642, UL 1973, UL 9540, UL 9540A, UN 38.3, UL 60730-1 ANNEX H, FCC Part 15 (Class B), IEEE 693-2005 (high), UL1741-CRD-PCS		
Listing		CEC, HECO, SGIP, LUMA		
General parameters				
Enclosure		NEMA 4X		
Operating Noise @ 1 m		30dB(A) night time(low consumption) <60dB(A) maximum		
Dimensions(L*H*W)	600*937*220 mm 23.6*36.9*8.7 in	600*1205*220 mm 23.6*47.4*8.7 in	600*1472*220 mm 23.6*58.0*8.7 in	600*1740*220 mm 23.6*68.5*8.7 in
System weight	193lbs/87.5kg	285lbs/129.5kg	378lbs/171.5kg	470lbs/213.5kg
Battery module weight		95lbs / 43kg		
Inverter weight		95lbs / 43kg		
Base weight		5.5lbs / 2.5kg		
Mounting options		Floor or wall mount		
Max. elevation		9,843 ft / 3,000 m		
Charge operating temperature		14°F to 122°F / -10°C to 50°C *		
Discharge operating temperature		-4°F to 122°F / -20°C to 50°C *		
Limited warranty				
System warranty		> 80% capacity, up to 10 years or 6,000 cycles **		

Notes:

* Performance may be de-rated in extreme operating temperatures.

** Battery capacity warranty up to 10 years or 6,000 cycles (whichever occurs first)

Designed and manufactured by Eternalplanet

EP CUBE HYBRID INVERTER + BATTERIES



EP Cube2 UL-S-25G



EP Cube2 UL-S-30G



EP Cube2 UL-S-35G



EP Cube2 UL-S-40G

EP Cube system

Hybrid inverter			1	
Battery module	5	6	7	8
Base			1	

Hybrid inverter

MPPTs	6
Input current	I_{mp} 16A / I_{sc} 25A per MPPT
Withstand PV Voltage	600V _{DC}
PV DC Input Voltage Range	60 – 550V _{DC}
PV DC MPPT Voltage Range	60 – 480V _{DC}
Nominal grid voltage	208V/240V _{AC}
Frequency	60Hz
Black start	Yes
Maximum AC output, on-grid, 240V	5.8 kW / 7.6 kW / 9.6 kW / 11.5 kW
Maximum AC output, on-grid, 208V	5.0 kW / 6.6 kW / 9.9 kW
Overcurrent Protection Device	30A / 40A / 50A / 60A
Maximum inverter CEC efficiency	96.5%
Imbalance for split-phase loads	100%,maximum 5.75kW for each phase

Communication Module

Internet connection	Wi-Fi, Ethernet, Cellular (LTE, 4G)
User interface	EP Cube APP (Android & IOS), HMI

Energy storage and power

Total energy	25.0 kWh	30.0 kWh	35.0 kWh	40.0 kWh
Maximum Battery Only Continuous Charge Power/Current		6kW/25A(240V) 6kW/28.8A(208V)		
Maximum Battery Only Continuous Discharge Power/Current		11.5kW/48A(240V) 9.9kW/48A(208V)		
Maximum Continuous Discharge Power/Current(full sun)		11.5kW/48A(240V), 9.9kW/48A(208V)		
LRA(1s)		185A		

Safety & compliance

Protections	Integrated arc fault circuit interrupter (AFCI), PV RSD
Certifications	UL 1699B, UL 1741-SB, IEEE 1547, IEEE 1547-1, IEEE 2030.5, UL 1998, UL 1642, UL 1973, UL 9540, UL 9540A, UN 38.3, UL 60730-1 ANNEX H, FCC Part 15 (Class B), IEEE 693-2005 (high), UL1741-CRD-PCS
Listing	CEC, HECO, SGIP, LUMA

General parameters

Enclosure	NEMA 4X			
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Dimensions(L*H*W)	1350*1205*220mm 53.2*47.4*8.7 in	1350*1262*220mm 53.2*49.7*8.7 in	1350*1472*220mm 53.2*58.0*8.7 in	1350*1529*220mm 53.2*60.2*8.7 in
System weight	596lbs/270.4kg	691lbs/313.4kg	786lbs/356.4kg	881lbs/399.4kg
Battery module weight	95lbs / 43kg			
Inverter weight	95lbs / 43kg			
Long Base weight	22lbs / 10kg			
Mounting options	Floor			
Max. elevation	9,843 ft / 3,000 m			
Charge operating temperature	14°F to 122°F / -10°C to 50°C *			
Discharge operating temperature	-4°F to 122°F / -20°C to 50°C *			

Limited warranty

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