

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 optionsfrom 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

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 www.epcube.com

Designed and manufactured by Eternalplanet

June 2026 | All rights reserved | EP Cube 2.0 Datasheet_Canada_English_V1.0

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	11.5kw (programmable derating available through software, derated maximum AC output power options: 5.8/7.6/9.6kw)			
Maximum AC output, on-grid, 208V	9.9kw (programmable derating available through software, derated maximum AC output power options: 5.0/6.6kw)			
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
Nominal battery voltage	$51.2V_{DC}$	$102.4V_{DC}$	$153.6V_{DC}$	$204.8V_{DC}$
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), UL1741-CRD-PCS, UL3141, CSA C22.2 No. 107.1-16 (R2021), CSA C22.2 No. 330:23, CSA C22.2 No. 0.8:19, CSA C22.3 No.9			
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

June 2026 | All rights reserved | EP Cube 2.0 Datasheet_Canada_English_V1.0

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	11.5kw (programmable derating available through software, derated maximum AC output power options: 5.8/7.6/9.6kw)			
Maximum AC output, on-grid, 208V	9.9kw (programmable derating available through software, derated maximum AC output power options: 5.0/6.6kw)			
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
Nominal battery voltage	$256.0V_{DC}$	$307.2V_{DC}$	$358.2V_{DC}$	$409.6V_{DC}$
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), UL1741-CRD-PCS, UL3141, CSA C22.2 No. 107.1-16 (R2021), CSA C22.2 No. 330:23, CSA C22.2 No. 0.8:19, CSA C22.3 No.9			
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)	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 **			

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

June 2026 | All rights reserved | EP Cube 2.0 Datasheet_Canada_English_V1.0

EP CUBE SMART GATEWAY (Optional)



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, UL3141 CSA C22.2#205, CSA C22.2#29, CSA C22.2#0.19, UL 916
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

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

June 2026 | All rights reserved | EP Cube 2.0 Datasheet_Canada_English_V1.0