



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 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} | | | |
| Allowable DC-AC ratio | 2 | | | |
| Nominal grid voltage | 208V/240V _{AC} | | | |
| Frequency | 60Hz | | | |
| Black start | Yes | | | |
| Maximum AC output, on-grid | 11.5 kW | | | |
| Overcurrent Protection Device | 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) | 8kW/33A(240V) 8kW/38.5A(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) | TBD | TBD | 185A | 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, UL 3741 | | | |
| Listing | CEC, HECO, SGIP, LUMA | | | |
| General parameters | | | | |
| Enclosure | NEMA 4X | | | |
| Operating Noise @ 1 m | 30dB(A) night time(low consumption) <60dB(A) maximum | | | |
| Dimensions | 600*937*220mm | 600*1204*220mm | 600*1471*220mm | 600*1738*220mm |
| System weight | 198lbs/89.8kg | 293lbs/132.8kg | 387lbs/175.8kg | 482lbs/218.8kg |
| Battery module weight | 95lbs / 43kg | | | |
| Inverter weight | 95lbs / 43kg | | | |
| Base weight | 8.4lbs / 3.8kg | | | |
| Mounting options | Floor or wall mount | | | |
| Max. elevation | 9,843 ft / 3,000 m | | | |
| Operating temperature | 14°F to 122°F / -10°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) | | | | |

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} | | |
| Allowable DC-AC ratio | | 2 | | |
| Nominal grid voltage | | 208V/240V _{AC} | | |
| Frequency | | 60Hz | | |
| Black start | | Yes | | |
| Maximum AC output, on-grid | | 11.5 kW | | |
| Overcurrent Protection Device | | 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, UL 3741 | | |
| Listing | | CEC, HECO, SGIP, LUMA | | |
| General parameters | | | | |
| Enclosure | | NEMA 4X | | |
| Operating Noise @ 1 m | | 30dB(A) night time(low consumption) <60dB(A) maximum | | |
| Dimensions | 1350*1204*220mm | 1350*1307*220mm | 1350*1471*220mm | 1350*1570*220mm |
| System weight | 594lbs/269.6kg | 689lbs/312.6kg | 784lbs/355.6kg | 879lbs/398.6kg |
| Battery module weight | | 95lbs / 43kg | | |
| Inverter weight | | 95lbs / 43kg | | |
| Long Base weight | | 17.6lbs / 8kg | | |
| Mounting options | | Floor | | |
| Max. elevation | | 9,843 ft / 3,000 m | | |
| Operating temperature | | 14°F to 122°F / -10°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)

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 |
|----------------|--|

General parameters

| | |
|-------------------------------|------------------------------------|
| Enclosure | NEMA 3R |
| Outlet Type | Bottom, Back, Top, Side |
| Operating Noise @1m | <30dB(A) |
| Dimensions | 560*720*170mm |
| 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.

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