



EP CUBE

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 9.9 kWh to 19.9 kWh per EP Cube unit
and up to 119.9 kWh for full system



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



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

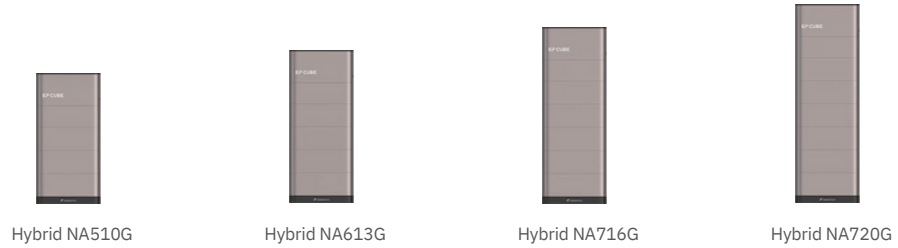


Supports Wi-Fi and Cellular network connection
Remotely monitor power generation and consumption
OTA firmware update, continuous function improvement



Compatible with generators for long-term power outages
Can be connected to 2@50A Level 2 EV chargers
100% green power for electric vehicles

EP CUBE HYBRID INVERTER + BATTERIES



EP Cube system				
Hybrid inverter			1	
Battery module	3	4	5	6
Base			1	
Hybrid inverter				
MPPTs			4	
Input current			Imp 16A / Is c 20A per MPPT	
PV maximum input voltage			600V _{dc}	
MPPT operating voltage			90VDC - 550VDC	
PV maximum input power			4kWp per MPPT	
Allowable DC-AC ratio			2	
Nominal grid voltage			240V _{ac}	
Frequency			60Hz	
Maximum AC output, on-grid			7.6 kW	
Maximum inverter CEC efficiency			93.93%	
Imbalance for split-phase loads			100%, maximum 3.8kW for each phase	
Energy storage				
Total energy				
AC output, PV + battery	9.9 kWh	13.3 kWh	16.6 kWh	19.9 kWh
Full Sun, off-grid			7.6 kW, 31.6A (Continuous) 22 kVA (10s)	
AC output, battery only				
No Sun, off-grid	5 kW, 20.8A (Continuous) 7.6 kVA (10s)	6.5 kW, 27.0A (Continuous) 9.7 kVA (10s)	7.6 kW, 31.6A (Continuous) 11.4 kVA (10s)	7.6 kW, 31.6A (Continuous) 11.4 kVA (10s)
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) CSA22.2 No.107.1-16, CAN 1973:2022, CAN 9540:2020, ICES-003 Issue 7:2022	
Listing			CEC, HECO	
General parameters				
Enclosure			NEMA 4X	
Noise			< 50dB @ 1m, front side	
Dimensions	23.62" x 48.03" x 9.25" 600 x 1220 x 235 mm	23.62" x 56.50" x 9.25" 600 x 1435 x 235 mm	23.62" x 64.96" x 9.25" 600 x 1650 x 235 mm	23.62" x 73.43" x 9.25" 600 x 1865 x 235 mm
System weight	286.6 lbs / 130 kg	352.7 lbs / 160 kg	418.9 lbs / 190 kg	485 lbs / 220 kg
Battery module weight			70lbs / 32kg	
Inverter weight			77lbs / 35kg	
Base weight			5.5lbs / 2.5kg	
Mounting options			Floor or wall mount	
Max. elevation			9,843 ft / 3,000 m	
Ambient operating temperature			14°F to 122°F / -10°C to 50°C **	
Recommended operating temperature			32°F to 86°F / 0°C to 30°C	
Limited warranty System warranty				
Notes			> 80% capacity, up to 10 years or 6,000 cycles ***	

* PVRS support Tigo and APSmart transmitter.

** 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



Smart Gateway

Grid and load	
Nominal grid voltage	120 / 240V ^c
Frequency	60 Hz
Max current	200A
Short circuit current protection	10 kA
Microgrid interconnection	
Rated current	200A
Switchover time(on-grid / off-grid)	Seamless
EP Cube hybrid interface *	
Output voltage	120 / 240V _c
Overcurrent protection	40A
AC extend interface **	
Output voltage	120 / 240V ^c
Max current	100A
Generator control request	Yes
Generator start type	2-wire start (I/O)
EV Charger communication (optional)	RS485
Communication	
Internet connection	Wi-Fi, Cellular (LTE, 4G)
User interface	EP Cube APP (Android & IOS)
Safety & compliance	
Certifications	UL1741, ICES-003 (Class B) FCC Part 15 (Class B), FCC ID IEEE 693-2005 (high) CSA22.2 No.107.1-16
General parameters	
Enclosure	NEMA 4X
Noise	< 50dB
Dimensions	23.62" x 23.62" x 7.09" 600 x 600 x 180 mm
Weight	44.1 lbs 20 kg
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

* The Smart Gateway includes one pre-installed EP Cube extension port, up to six extension ports can be installed.

** The Smart Gateway includes two AC extend interfaces.

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