



POMCube Energy Storage System

iCAN[®] NetZero Plus



The Power Center of Every Home
POMCube iCAN NetZero Plus Energy Storage System
Clean, Smart and Powerful



Why iCAN[®] NetZero Plus?

When facing power outage, you don't have to choose between powering all of your home or part of your home. NetZero+ is a versatile, long-lasting solution to power outages and high utility rate.



Whole home backup

ESS with 20kWh / 12.5kVA can offer you true whole home backup.



All-in-one

All of the components have been seamlessly integrated into a true all-in-one design.



Quick and easy installation

With lightweight modules and no wiring, the NetZero+ is designed to be the easiest battery to install and configure.



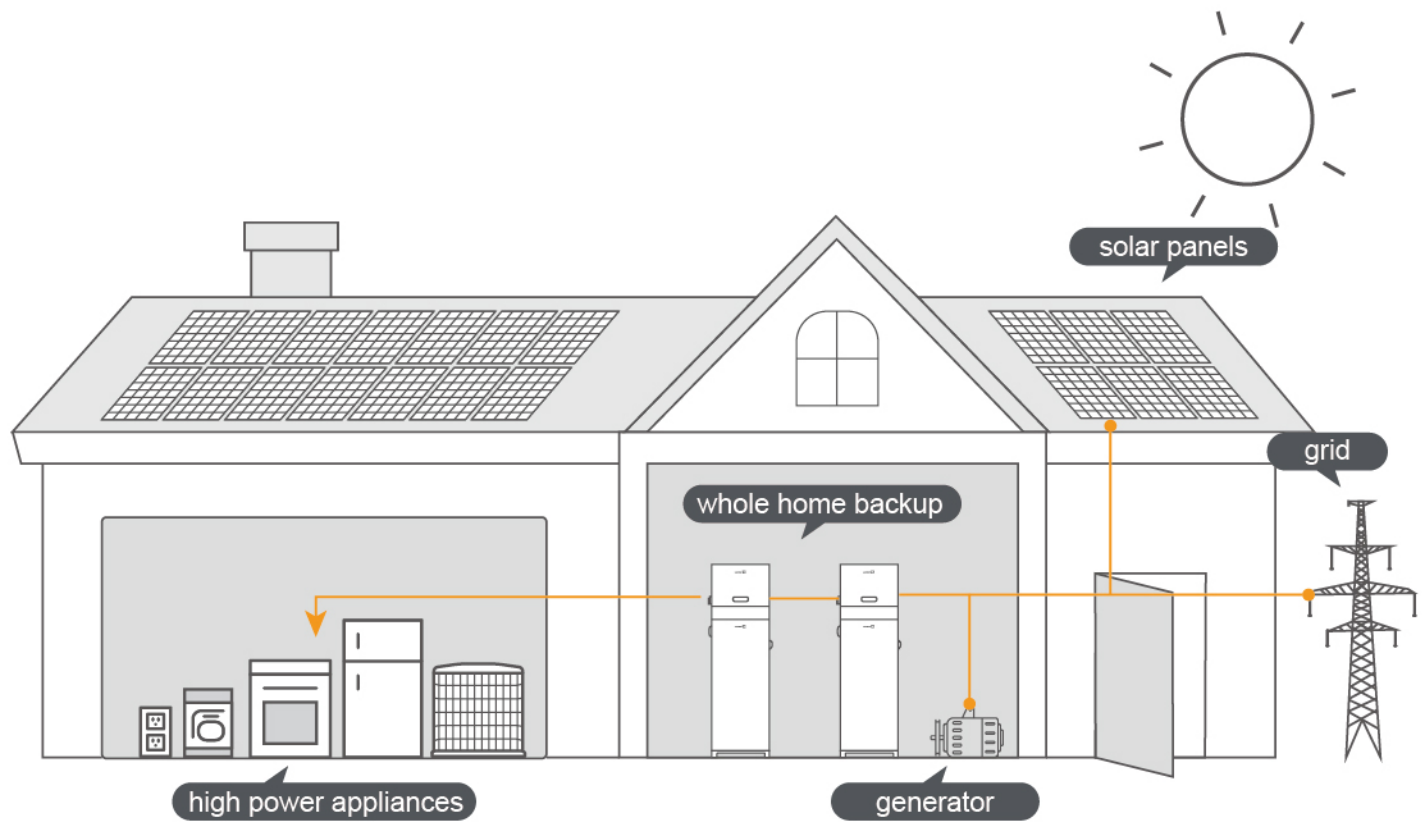
More than a battery

Built-in smart home platform, with predictive forecasting and load shedding. Netzero+ is the power center of your home.

Whole home backup

High power & high capacity

- 20 kWh battery capacity, usable 18.5 kWh
- 12.5kVA continuous output power, 21 kVA peak power
- 100A pass through, two units can support 200A whole home backup.
- Scalable up to 4 units, 80kWh
- Off-Grid ready



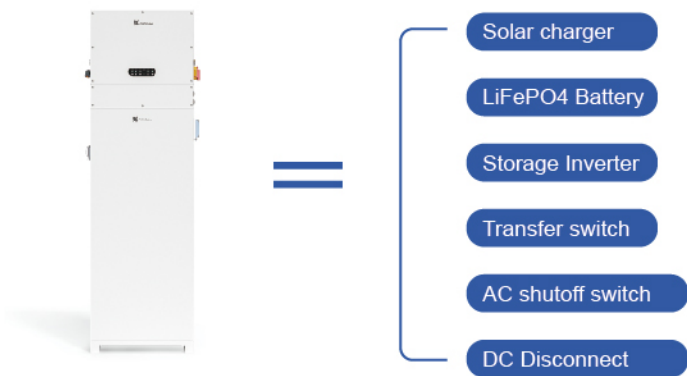
A pair of NetZero+ can power your central air condition units, well pumps and EVs.

All-in-one

Highly integrated

- POMCube NetZero+ = solar charger + LiFePO4 battery + storage Inverter + transfer switch + AC shutoff switch + DC Disconnect.

AC coupling ready



Quick and easy installation

- Quick and easy plug-and-play installation
- Lightweight module(s)
- One-button configuration



Lightweight module(s)



LiFePO4 Battery Modules

Hybrid inverter

Battery Cabinet

Reliable, safe, and efficient

- 6000+ life cycles
- Lithium iron battery (LiFePO4)
- 10-year warranty
- Certificated by UL9540, UL1741SA, UL1973, UL1642, UL1998, CSA C22.2
- CEC weighted efficiency of 96.4%



More than a battery

Based on POMCube EMS, you can manage the energy efficiently and conveniently:

- TOU Arbitrage
- Excessive energy to grid
- Self-sufficiency
- No export (meter-zero)
- Smart load management

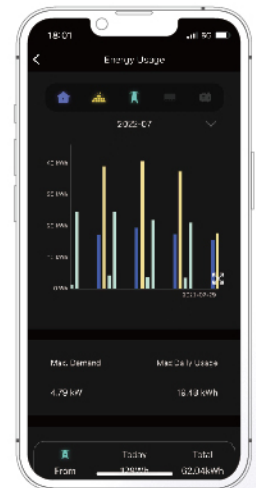
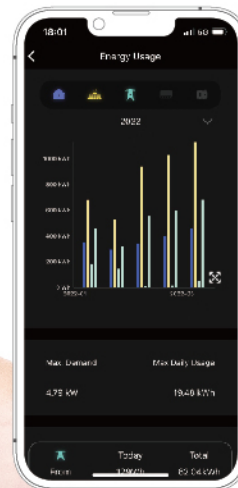
To minimize the energy cost, above functions can be implemented authoritatively by EMS in smart and efficient way according to the solar production, battery SOC and grid situation.

iCAN[®] NetZero APP and OSS Web Portal

Monitor and manage your NetZero+ from anywhere in the world. Program your NetZero+ for self sufficiency, protection from power outages or to maximize savings

Wi-fi, Ethernet, 4G LTE and over the air updates for easy configuration.

Grant oss access to installers and pomcube for remote and in person service





Universal PCS Hybrid Inverter

| Efficiency | | | | |
|---------------------------|--------|-------|-------|-------|
| MPPT Efficiency | > 99% | | | |
| Max. Charge Efficiency | 98.20% | | | |
| Max. Discharge Efficiency | 97.4% | 97.7% | 97.8% | 97.7% |
| CEC Weight Efficiency | 96.2% | 96.4% | 96.4% | 96.5% |

| Grid Output | | | | | |
|-------------------------|---------------------------|-------|-------|---------|------|
| Rated Power | 7.5 kW | 10 kW | 11 kW | 12.5 kW | |
| Rated Frequency | 50 Hz / 60 Hz | | | | |
| Max. Output Current | @ 240 V | 32 A | 42 A | 45.8 A | 52 A |
| | @ 208 V | 32 A | 42 A | 45.8 A | 52 A |
| Adjustable Power Factor | 0.8 Leading ~ 0.8 Lagging | | | | |
| THD | ≤ 3% | | | | |

| Grid / Generator Input | | | | |
|------------------------|-------------------------------|-------|-------|---------|
| Rated Power | 7.5 kW | 10 kW | 11 kW | 12.5 kW |
| Voltage Range | 216 Vac ~ 264 Vac | | | |
| Frequency Range | 45 Hz ~ 55 Hz / 55 Hz ~ 65 Hz | | | |

| Load Output | | | | |
|-------------------|-----------------------------|--------|--------|----------|
| Rated Power | 7.5 kVA | 10 kVA | 11 kVA | 12.5 kVA |
| Rated Voltage | 120/240 Vac Split Phase | | | |
| Rated Frequency | 50Hz / 60 Hz | | | |
| Peak Output Power | 21 kVA @10 s; 35 kVA @20 ms | | | |

| PV Input | |
|------------------------------|-----------------|
| Max. Power of PV | 2 * 8.5 kWp |
| Voltage Range | 175 Vdc~450 Vdc |
| MPPT Operation Voltage Range | 175 Vdc~380 Vdc |
| Full Load MPPT Voltage Range | 250 Vdc~380 Vdc |
| MPPT Channels | 2 |
| Max. Current | 2*26 A |
| Number of Input | 4 |

| Battery Input / Output | |
|------------------------|-----------------|
| Max. Power | 12.5 kW |
| Voltage Range | 360 Vdc~584 Vdc |
| Max. Current | 36 A |

| Protection | |
|--------------------------------|----------------------------------|
| DC Switch | DC surge Protection |
| Rapid Shutdown (RSD) | AC Surge Protection |
| Anti-islanding Protection | Leakage-Current Protection |
| DC Reverse Polarity Protection | Insulation Monitoring |
| Over Temperature Protection | Ground-Fault Isolation Detection |
| Over Current Protection | |

| General | |
|-----------------------------|---|
| Weight | 98 lbs(44.5 kg) |
| Dimensions (W * H * D) | 25.6 in * 24.4 in * 9.5 in (650 mm * 620 mm * 241.5 mm) |
| Cooling | Passive cooling through aluminum heatsink, external weatherproof fan to improve performance |
| Noise Emission | <55 dB(A) |
| Communication Interface | Wi-Fi, Ethernet, 4G, RS485, CAN |
| Display | LED, iOS / Android App |
| Topology | Transformerless |
| Operating Temperature Range | -13 °F ~ 140 °F (-25 °C ~ 60 °C)Derating When it's higher than 45 °C |
| Relative Humidity | 0 ~ 95% (No Condensation) |
| Enclosure Protection Rating | NEMA 4X (IP65) |
| Altitude | ≤ 9842 ft (3000 m) |

| Standards Compliance | |
|---------------------------|------------------------------------|
| Safety | UL1741SA,UL9540, UL1998, CSA C22.2 |
| EMC | FCC Part 15 Class B |
| Grid Connection Standards | IEEE 1547A, Rule 21 |

Rechargeable Lithium Battery System

| Electrical | |
|----------------------------|----------------------------------|
| Cell Chemistry | Lithium iron phosphate (LiFePO4) |
| Rated Energy | 20 kWh |
| Usable Energy | 18.5 kWh |
| Nominal Voltage | 384 Vdc |
| Nominal Capacity | 52 Ah / 20 kWh |
| Charge Voltage | 420 Vdc |
| Operating Voltage Range | 360 Vdc~ 438 Vdc |
| Continuous Power | 12.5 kW |
| Max. Short Circuit Current | 90 A @ 200 ms |
| Peak Power | 52 A @ 10 s |

| Protection | |
|------------------------|--------------------|
| Over/Under Temperature | Over/Under Voltage |
| Over Current | Short Circuit |

| General | |
|---|---|
| Dimensions (W * H * D) | 25.6 in * 61 in * 12.2 in (650 mm * 1550 mm * 310 mm) |
| System Weight | 500.4 lbs(227 kg) |
| Battery Module Weight | 47.4lbs(21.5 kg) |
| BCMS Module Weight | 15.8lbs(7.2 kg) |
| Cabinet Weight (BCMS Included) | 120.4bs (54.6 kg) |
| Communication Interface | CAN, RS232 |
| Display | LED |
| Operating Temperature Range | 32 °F ~ 113 °F (0 °C ~ 45 °C) |
| Recommended Operating Temperature Range | 50 °F ~ 95 °F (10 °C ~ 35 °C) |
| Relative Humidity | 0 ~ 95% (No Condensation) |
| Protection Rating | IP65 |
| Altitude | ≤ 9842 ft (3000 m) |

| Standards Compliance | |
|----------------------|--------------------------------|
| EMC | FCC Part 15 Class B |
| Safety | UL9540, UL1973, UL1642, UL1998 |

* POMCube reserves all rights to modify product design & specifications.

