

iCAN[®] NetZero Plus

30min Quick Installation Energy Storage System



Easiest Installation

- **Lightweight modular + quick coupler design**

Universal PCS: 95 lbs (43 kg)

Aluminum battery cabinet: 76 lbs (35 kg)

Plug-in battery (LiFePO₄): 43 lbs (20 kg) each

Plug-in BCMS: 11 lbs (5 kg)

Independence & Self-sufficiency

- **Authentic offgrid utility grade power:** ensuring reliable backup power in continuous service disruptions
- **12.5 kVA power** to charge your electric vehicle and run your house at the same time during outages longer than 48 hours

Born Integration

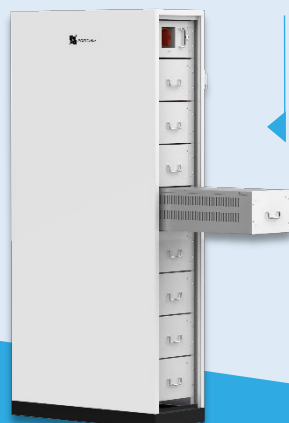
- **iCAN NetZero Plus** = Solar charger + battery + PCS + transfer switch + AC shutoff switches
- **Simplicity:** No external cables between modules
- **Ships complete with MPPT charger, split phase 120/240 input and output:** options costing over \$3000 on other models
- **Installation cost:** saving half the labor of competing designs

Custom Intelligence

- **Monthly Savings:** Automatically takes full advantage of TOU incentives / DRP participation
- **Auto-switch** among PCS, grid and generator
- **Real-time APP monitor and tailored energy management** based on local load and weather conditions rather than indiscriminate ToU strategies only
- OTA system updates and lifelong online service

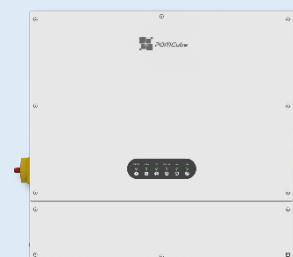
Care-free Maintenance

- **Seamless capacity expansion:** communication-free paralleling of multiple devices
- **Passive heat dissipation** for protection of key parts
- **Easily-replaceable** weatherproof cooling fans



Battery
(LiFePO₄)

Universal PCS



☀️ ☀️ 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
	@ 277 V	27 A	35.7 A	40 A	45 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	50 / 60 Hz			
Overload Capacity	110%@10min, 120%@1min, 130%@10s			

PV Input

Max. Power of PV	2 * 8.5 kWp			
Voltage Range	175 Vdc ~ 360 Vdc			
MPPT Operation Voltage Range	175 Vdc ~ 330 Vdc			
Full Load MPPT Voltage Range	250 Vdc ~ 330 Vdc			
MPPT Channels	2			
Max. Current	2 * 26 A			
Number of Input	2			

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	95 lbs (43 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	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 (LiFePO ₄)
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	80 A @ 200 ms
Peak Power	20 kW@1s

Protection

Over/Under Temperature	Over/Under Voltage
Over Current	Short Circuit

Standards Compliance

EMC	FCC Part 15 Class B
-----	---------------------

General

Dimensions (W * H * D)	25.6 in * 55.1 in * 10.2 in (650 mm * 1400 mm * 260 mm)
System Weight	432 lbs (196 kg)
Battery Module Weight	43 lbs (19.6 kg)
BCMS Module Weight	11.2 lbs (5.1 kg)
Enclosure Weight	76 lbs (35 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	NEMA 1 (IP20)
Altitude	≤ 9842 ft (3000 m)

Safety	UL9540, UL1973, UL1642, UL1998
--------	--------------------------------