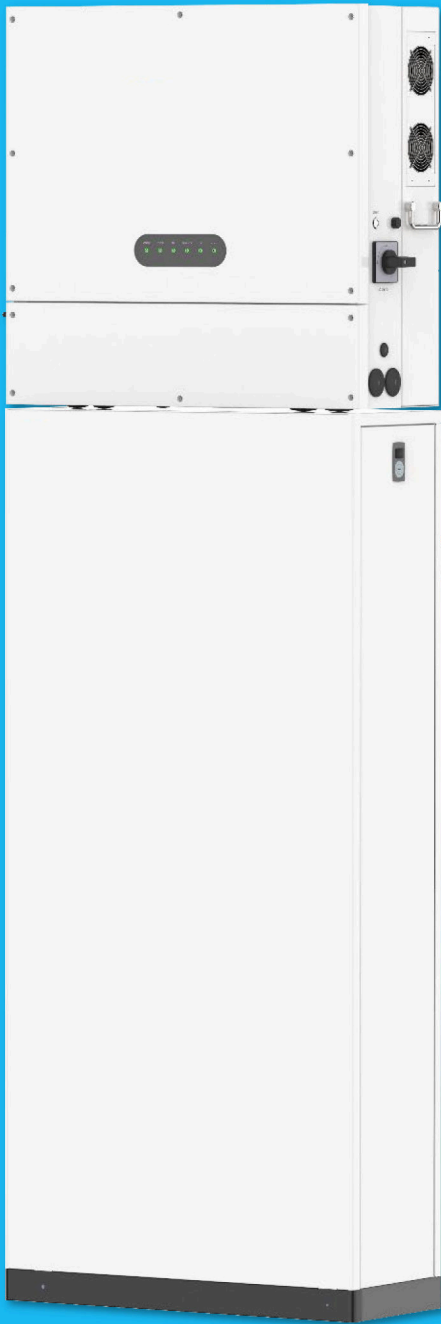


30min Quick Installation Energy Storage System



EASIEST INSTALLATION

- **Lightweight modular + quick coupler design**

Universal PCS: 88lbs

Aluminum battery cabinet: 64lbs

Plug-in battery (LiFePO4): 47lbs each

Plug-in BCMS: 15lbs

INDEPENDENCE & SELF-SUFFICIENCY

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

BORN INTEGRATION

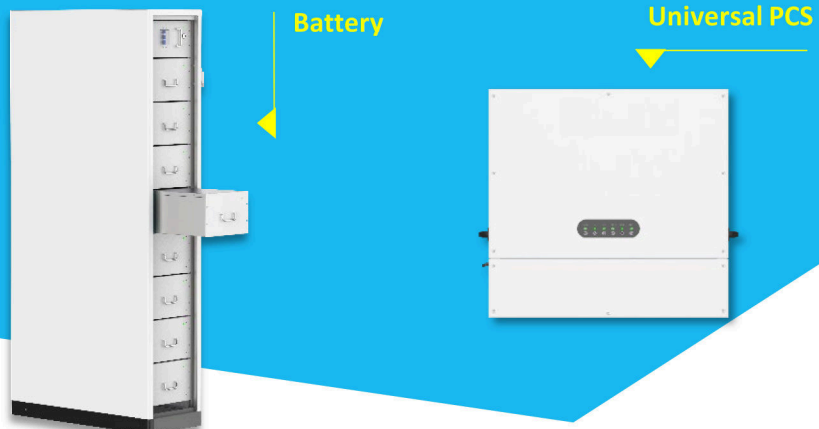
- Energy4ce Plus = Solar charger + battery + PCS + transfer switch + AC shutoff switches
- **Simplicity:** No external cables between modules
- **Ships complete with MPPT charger, split phase 120/240 input and output:** options costing over \$3000 on other models
- **Installation cost:** saving half 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



Universal PCS Hybrid Inverter



Efficiency

MPPT Efficiency	> 99%
Max. Charge Efficiency	98.20%
Max. Discharge Efficiency	97.50%

Grid Output

Rated Power	7.5kW, 10kW, 11kW, 12.5kW
Rated Frequency	60Hz
Max. Output Current	32A, 42A, 45.8A, 52A @ 240V 32A, 42A, 45.8A, 52A @ 208V 27A, 35.7A, 40A, 45A @ 277V
Adjustable Power Factor	0.8 Leading ~ 0.8 Lagging
THD	≤ 3%

Grid / Generator Input

Rated Power	7.5kW, 10kW, 11kW, 12.5kW
Voltage Range	216V ~ 264Vac
Frequency Range	55 ~ 65Hz

Load Output

Rated Power	7.5kVA, 10kVA, 11kVA, 12.5kVA
Rated Voltage	120 / 240Vac Split Phase, 208Vac, 277Vac
Rated Frequency	60Hz
Overload Capacity	110%@10min, 120%@1min, 130%@10S

PV Input

Max. Power of PV	2 * 7.5kWp
Voltage Range	175 ~ 600Vdc
MPPT Voltage Range	175 ~ 600Vdc
Full Load MPPT Voltage Range	250 ~ 550Vdc
MPPT Channels	2
Max. Current	2 * 26A
Number of Input	2

Electrical

Cell Chemistry	Lithium iron phosphate (LiFePO ₄)
Rated Energy	21.3kWh
Usable Energy	19.1kWh @ 5kW
Nominal Voltage	409.6Vdc
Nominal Capacity	52Ah
Charge Voltage	448Vdc
Operating Voltage Range	384 ~ 467.2Vdc
Continuous Power	7.5kW
30 Minutes Power	12.5kW
Peak Power	21.3kW @ 1s

Protection

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

Standards Compliance

EMC	FCC Part 15 Class B
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Battery Input / Output

Max. Power	12.5kW
Voltage Range	360 ~ 584Vdc
Max. Current	36A

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

Dimensions (W * H * D)	25.6in * 24.4in * 9.5in (650mm * 620mm * 241.5mm)
Cooling	Passive cooling through aluminum heatsink, external weatherproof fan to improve performance
Weight	88lbs (40kg)
Recommended PV Input Voltage	< 500Vdc
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 Temperature > 45°C
Relative Humidity	0 ~ 95% (No Condensation)
Protection Rating	NEMA 4X (IP65)
Altitude	≤ 9842ft (3000m)
Noise Emission	< 55dB(A)

Standards Compliance

EMC	FCC Part 15 Class B
Grid Connection Standards	IEEE 1547A, Rule 21, Rule 14
Safety	UL9540, UL1741, UL1741SA, UL1998, CSA C22.2

Lithium ion Rechargeable Battery System



General

Dimensions (W * H * D)	25.6in * 55.1in * 10.2in (650mm * 1400mm * 260mm)
System Weight	507lbs (230kg)
Battery Module Weight	53lbs (24kg)
BCMS Module Weight	14.5lbs(6.6kg)
Enclosure Weight	64lbs(29kg)
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 3 (IP54)
Altitude	≤ 9842ft (3000m)
Safety	UL9540, UL1973, UL1642, UL1998, CSA C22.2