

Trinahome PowerCube AC

AC-Coupling product for wide range of residential applications and emergency back-up use



PowerBox AC

PowerCube 2.0

Retrofit System

Rated Power: 3.6 kW (Single-phase)
Capacity: 4.8, 7.2, 9.6 kWh

Backup Function: Max. Load Surge 4.8 kVA
(Auto switch time < 20 ms)

Warranty: 10 years Battery Performance
(Expected Lifetime 20 years)



Safety

- Reliable Structural design
- Passes strict safety regulations (SAA, CE, RoHs)



System Diversity

- Ideal for both new and retrofit projects
- Outdoor rated for battery and inverter
- Compatible with mainstream inverters on the market



Flexible Installation

- Wall mounted / pedestal 2 points support
- Easy installation with 1 man 2 hours
- Compact size

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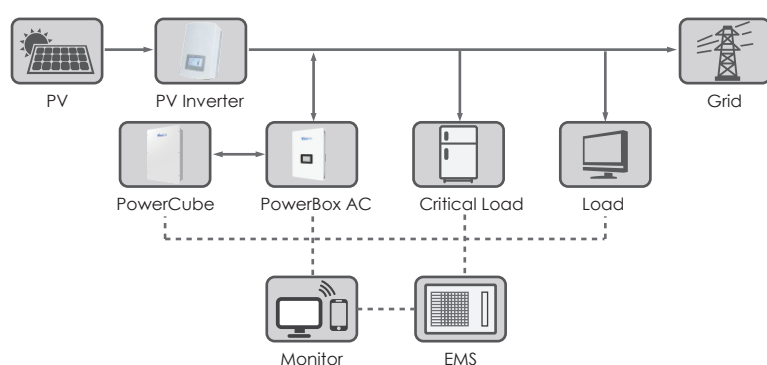
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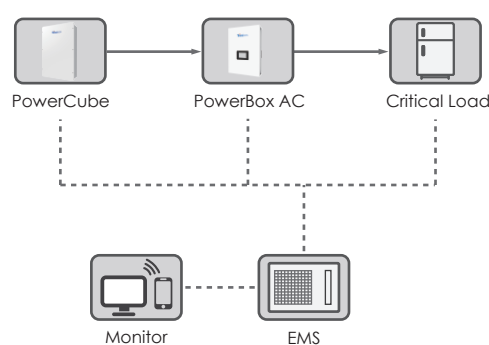
TECHNICAL DATA

Battery	PowerCube 2.0
Nominal Voltage	48 V
Nominal Capacity	100 Ah (2 battery packs) / 150 Ah (3 battery packs) / 200 Ah (4 battery packs)
Energy Capacity	4.8 kWh (2 battery packs) / 7.2 kWh (3 battery packs) / 9.6 kWh (4 battery packs)
Standard Charging&Discharging Current	50 A (2 battery packs) / 75 A (3 battery packs) / 100 A (4 battery packs)
Interface	CAN, RS485
Working Temp	-10 °C ~ 50 °C
Storage Temp	-25 °C ~ 60 °C
Round-trip DC Efficiency	92.5 %
Dimension (W x H x D)	600 x 1000 x 210 mm
Weight	app. 70 kg (2 battery packs) / 95 kg (3 battery packs) / 120 kg (4 battery packs)
Protection Level	IP 55
Warranty	10 years

On Grid Mode



Back Up Mode



Inverter	PowerBox AC
Battery Voltage Range	42 - 60 V
Max. Charging / Discharging Current	70 A / 70 A
On-Grid Output	
Output Power / Max.Output Power	3.6 kW / 5.4 kVA@2 sec
Rated Output Voltage	240 V
Maximum Output Current	15 A
Output Voltage Range	180 - 270 V
Grid Frequency	44 - 55 Hz
THD	< 3 %
Power Factor	1(selectable +/-0.8)
Off-Grid Output (Emergency Power Supply, Switch time < 20 ms)	
EPS Rated Peak Power	2.4 / 3.6 / 4.8 kVA (4.8 / 7.2 / 9.6 kWh)
EPS Rated Voltage	240 V
EPS Rated Frequency	50 Hz
EPS Rated Current	15 A
System Parameters	
Max Charging Efficiency	94.5 %
Max Discharging Efficiency	94.5 %
Standby Power	< 5 W
Protections	Anti-islanding, RCMU, Ground-fault detection
Certifications	AS4777, IEC62109
Communications	WiFi, RS485, CAN2.0
Ambient Temperature	-25 ~ +60
Humidity	0 ~ 95 %
CT Connection Mode	External
Noise Levels	< 40 dB
Weight	30 kg
Cooling Method	Natural Cooling
Dimension (W x H x D)	440 x 615 x 200 mm
Display	LCD
Warranty	5 Years (10 years optional)
Protection Class	IP 65

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.