Voltronic Power

Advancing Power



PEB 3kw

Mobile Power Station, mega capacity in compact size on the wheel

- Power 99% of your home appliances
- Scalable output power from 3kw to 6kw
- Expandable battery capacity from 2.5kwh to 7.5kwh
- Super fast recharge, 0-90% in one hour



Power Your Entire House by Renewable Energy

- Dual input power sources, grid and solar power
- Scheduled charging, charged by grid during off-peak hours
- Charging source priority setting, solar or grid
- Output source priority setting, solar, battery or grid



PEB 1.2kw, 2.5kw
1.2kw output with 768wh capacity,
2.5kw output with 1536wh capacity



PEB 3kw
3kw output with 2.5kwh capacity



Total 5kwh capacity



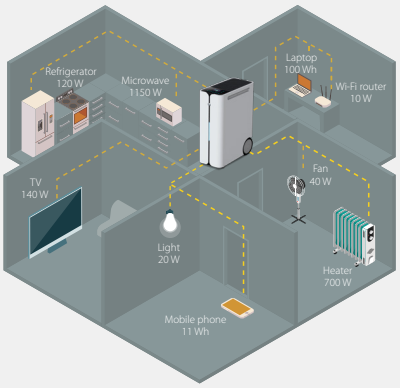
Total 7.5kwh capacity

Portable Energy Bank

- Sinewave AC output Lithium-ion battery bank
- 40A (1000w), 100A(2500w) built-in AC charger
  40A (1000w), 100A(2500w) built-in solar charger
  ultra fast fully charging in one hour
- 5 AC outlets, 4 DC outputs, terminal block for PEB 3kw
- Dual inputs, grid and solar
- Expandable to 6kw output power for PEB 3kw
- Expandable battery capacity to 7.5kwh for PEB 3kw
- Built-in battery management system (BMS)
- Wifi + APP, remote control & monitor daily power consumption

Power 99% of home appliances during long blackout

- **Power 9 devices at the same time for one hour and more**



- **Power most essential appliance over 24 hours**



- **Backup time or charge times**

Heater 700 W	Refrigerator 120 W	Microwave 1150 W	TV 140 W	Light 20 W
3 Hrs	**17-35 Hrs**	**1.75 Hrs**	**20 Hrs**	**77 Hrs**

Wi-Fi router 10 W	Fan 40 W	Mobile phone 11 Wh	Laptop 100 Wh
77 Hrs	**40 Hrs**	**222 Charges**	**40 Charges**

Highly mobility and Plug & Use

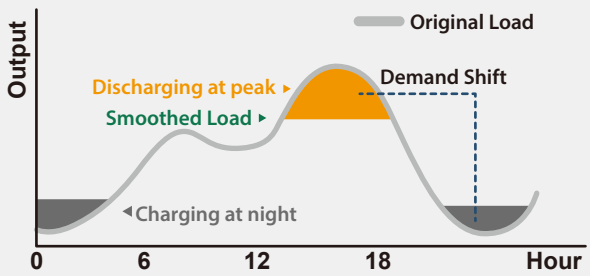
If you need to relocate the energy bank, simply unplug it and move it anywhere.





Peak cut

Store the power at night when the utility is generally cheaper and more available and discharge power when needed.



3000W solar input, fully charging in one hour without compromise



0 – 90% in one hour

Built-in 100A big charger, fully charged in one hour



PEB

1 hour **7X**



Other portable power station

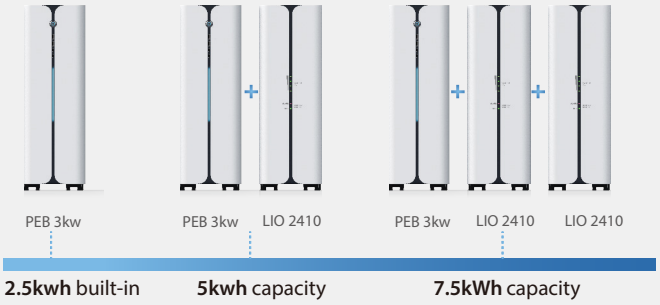
5-9 hours

Expand output power with 2 energy banks in parallel

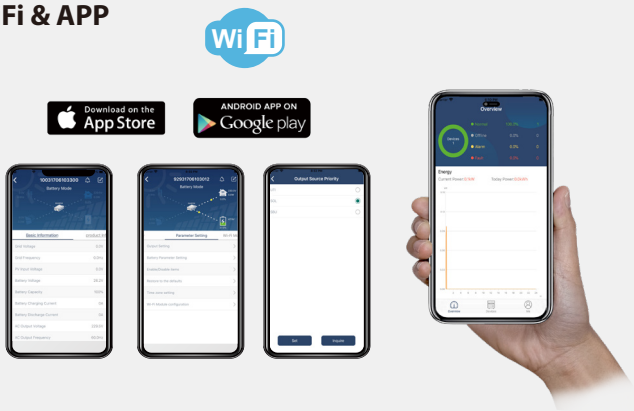
PEB 3kw + PEB 3kw = 6kw



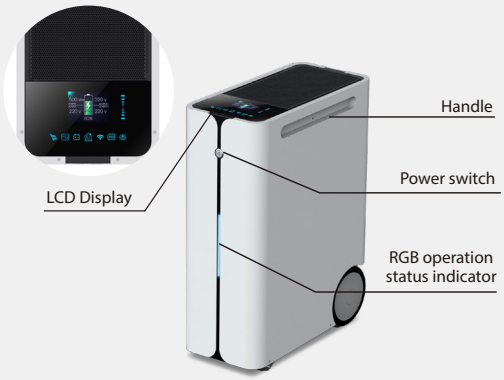
Expandable capacity from 2.5kwh to 7.5kwh



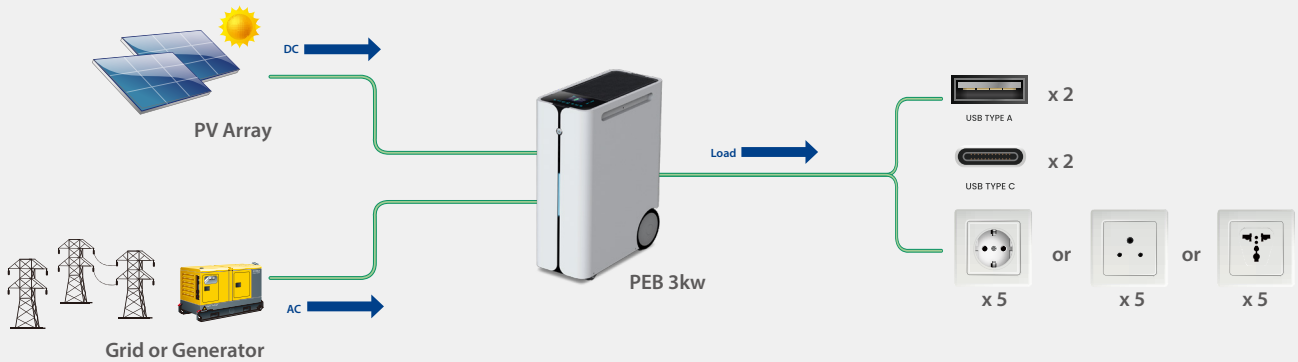
WiFi & APP



Outlook



System Diagram



Portable Energy Bank Selection Guide

INVERTER MODEL	PEB 1.2kw	PEB 2.5kw	PEB 3kw
Rated Inverter Power	1200VA/1200W	2500VA/2500W	3000VA/3000W
INPUT			
Voltage	230 VAC		100VAC/110VAC/120VAC or 220VAC/230 VAC/240VAC
Selectable Voltage Range	170-280 VAC (For Computers); 90-280 VAC (For Home Appliances)		75-130 VAC (For Computers); 60-140 VAC (for Home Appliances) or 170-280 VAC (For Computers); 90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)		
OUTPUT			
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%		100VAC/110VAC/120VAC ± 5% or 220VAC/230VAC/240VAC ± 5%
Surge Power	2400VA	5000VA	6000VA
Efficiency (Peak)	90% ~ 93%		93%
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)		
Waveform	Pure Sine Wave		
SOLAR CHARGER & AC CHARGER			
Solar Charger type	MPPT		
Maximum PV Array Power	2000W	3000W	3000W
MPPT Range @ Operating Voltage	60-300 VDC	60-400 VDC	60~ 400 VDC
Maximum PV Array Open Circuit Voltage	350 VDC	450 VDC	450 VDC
Maxmum Solar Charge Current	40A	40A	100A
Maximum AC Charge Current	40A	40A	100A
Maximum Charge Current	40A	40A	100A
BATTERY			
Energy	768Wh	1536Wh	2500Wh
Nominal Voltage	25.6 VDC	51.2 VDC	25.6VDC
Full Charge Voltage (FC)	29.2V	58.4V	29.2V
Full Discharge Voltage (FD)	20V	40V	20V
Typical Capacity	30 Ah	30 Ah	100Ah
Max Continuous Discharging Current	60A	60A	120A
Max Discharging Current	65A	65A	200A
Protection	BMS	BMS	BMS, Breaker
Maximum Charge Current	40A	40A	100A (1C)
Inner Resistance	≤0.6m ohm		
Lifecycle	≧2500 cycles , 0.5C charging/discharging ≧80% @EOL 100% DoD		≥3500 cycles, 0.5C charging/ discharging ≥80% @EOL 100% DoD
PHYSICAL			
Dimension, D X W X H (mm)	420 x 350 x 330		450 x 600 x 222
Net Weight (kgs)	15	20	34
STANDARD			
Compliance Safety	IEC/EN 62109-1/-2, EN 61000-6-4, EN-61000-6-2 IEC 62619, EN 61000-6-3, EN 61000-6-1, UN38.3		

LIO 2410, expandable battery module for PEB 3kw

BATTERY MODEL	LIO 2410
Energy	2500Wh
PARAMETERS	
Norminal Voltage	25.6VDC
Typical Capacity	100 Ah
Rated Discharging Current	120A
PHYSICAL	
Battery Module Dimension, D X W X H (mm)	450 x 600 x 222
Net Weight (kgs)	25
STANDARD	
Compliance Safety	IEC 62619, UN38.3

Product specifications are subject to change without further notice.

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