

VOLTACON[®]

ENERGY SYSTEMS

The Power To Be Independent



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

- Compact and mobility, plug & play in every where.
- 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

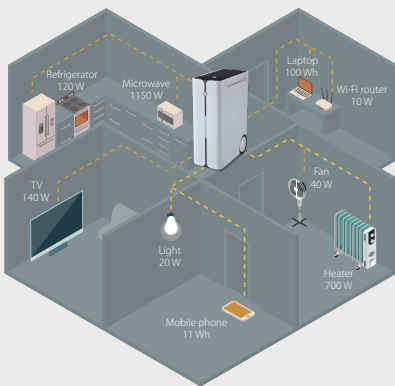


Portable Energy Bank

- Equipped with A grade LiFePO4 Lithium-ion cell supporting more than 3000 lifecycles. Compared to others with 18650 NMC cell with only 300 lifecycles, PEB lifetime is 10x more.
- 30A (750w), 100A(3000w) built-in AC charger
30A (2000w/3000w), 100A(3000w) built-in solar charger
ultra fast fully charging in one hour
- 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
- Inbuilt Type A 18Wx2 and Type C PD 3.0 65W x2 charging ports to support the mobile or tablet charging
- Supports OTA firmware upgrade only for PEB 3kw

Power 99% of home appliances during long blackout Plug & Use energy storage units for home appliances

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



- Power most essential appliance over 24 hours



- Backup time or charge times
(Based on PEB 3kw model)

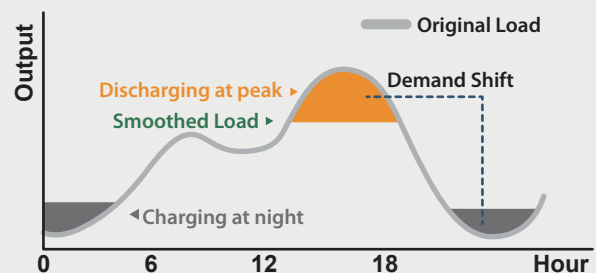
Heater 700 W 3 Hrs	Refrigerator 120 W 17-35 Hrs	Microwave 1150 W 1.75 Hrs	TV 140 W 20 Hrs	Light 20 W 77 Hrs
Wi-Fi router 10 W 77 Hrs	Fan 40 W 40 Hrs	Mobile phone 11 W 222 Charges	Laptop 100 W 40 Charges	

Compact and mobility, plug & play in every where



Peak cut

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

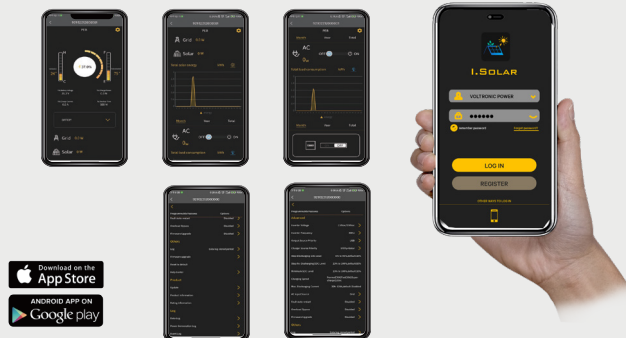


3000W solar input, fully charging in one hour without compromise



WiFi & APP

Supporting OTA (Over the Air) firmware upgrade



0 – 90% in one hour
Built-in 100A big charger, fully charged in one hour



PEB

1 hour **7X**



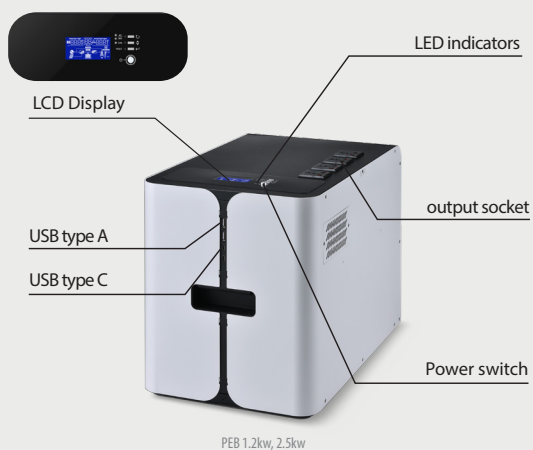
Other portable power station

5-9 hours

Easy export event logs through USB



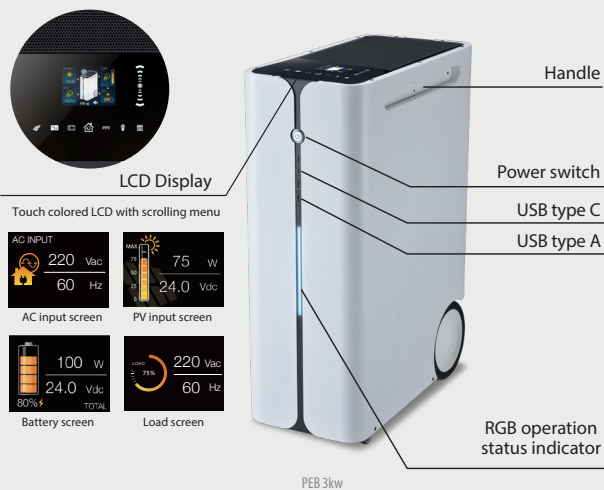
Outlook



PEB 1.2kw, 2.5kw



PEB 1.2kw, 2.5kw Rear Panel

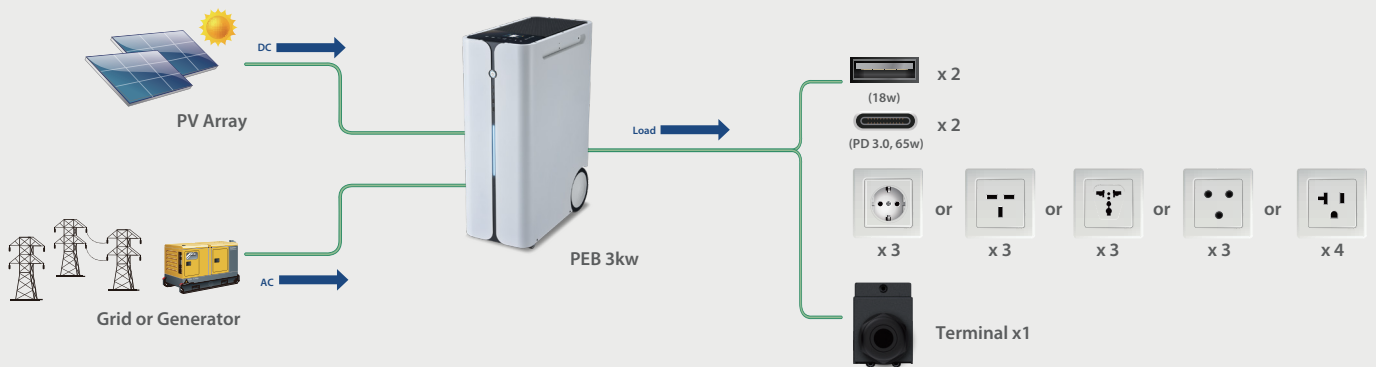


PEB 3kw

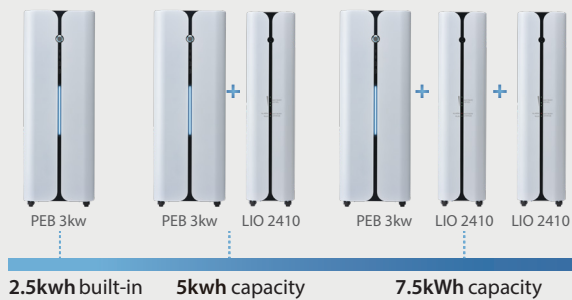


PEB 3kw Rear Panel

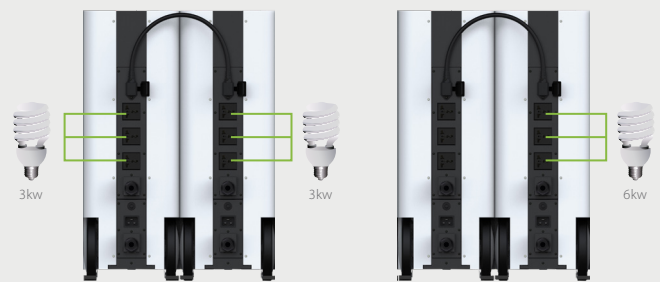
System Diagram



Expandable capacity from 2.5kwh to 7.5kwh



Easy on expanding the power through single cable inbuilt both power lines and parallel cables



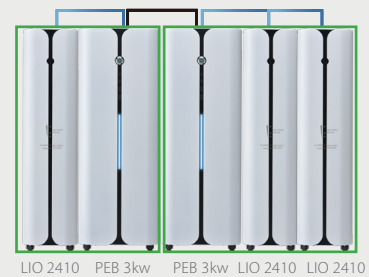
Output power expansion from 3kw to 18kw

Support parallel system at maximum 18kw inverter & 15kwh capacity

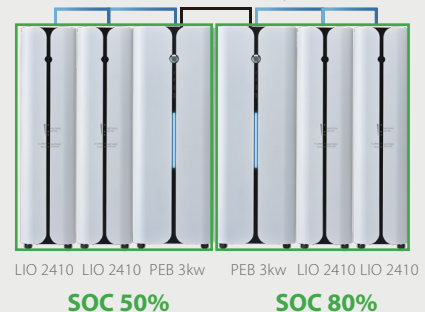


PEB 3kw in multiple units parallel, each battery is independent management, prolong maximum battery cycle life

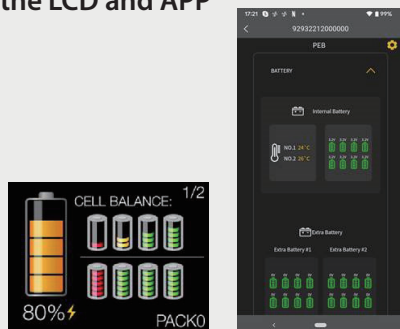
3kw + 3kw output
12.5kwh capacity



3kw + 3kw output
15kwh capacity



All of cells (include the external LIO-2410) status displayed on the LCD and APP



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)	50 Hz/60 Hz (Auto sensing)	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		
Output Connectors	Outlets	UK x 4 or Schuko x 4 or Universal x 4 or South Africa x 4 or Brazil x 4		UK x 3 or Schuko x 3 or Universal x 3 or South Africa x 3 or NEMA x 4
		Type A x 2 (QC 3.0, 18W x 2)		Type A x 2 (QC 3.0, 18W x 2)
	USB Ports	Type C x 2 (PD 3.0, 65W x 2)		Type C x 2 (PD 3.0, 65W x 2)
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		30A	30A	100A
Maximum AC Charge Current		30A	30A	100A
Maximum Charge Current		30A	30A	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		30A (1C)	30A (1C)	100A (1C)
Inner Resistance			≤0.6m ohm	
Lifecycle		≥ 3000 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)		450 x 280 x 330		450 x 222 x 622
Net Weight (kgs)		20	25	40
STANDARD				
Compliance Safety		IEC/EN 62109-1/-2, EN 61000-6-4, EN 61000-6-2, IEC 62619, UKCA, UN38.3		

LIO 2410, expandable battery module for PEB 3kw

BATTERY MODEL	LIO 2410
Energy	2500Wh
PARAMETERS	
Nominal Voltage	25.6VDC
Typical Capacity	100 Ah
Rated Discharging Current	120A
PHYSICAL	
Battery Module Dimension, D X W X H (mm)	450 x 150 x 622
Net Weight (kgs)	33
STANDARD	
Compliance Safety	IEC 62619, UN38.3
Product specifications are subject to change without further notice.	