

PowerShield®



PowerShield PrimusCharge 3kW

Mobile Power Station, mega capacity in a compact size on wheels

- Power 99% of your home appliances
- Scalable output power from 3kw to 18kw
- 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



PowerShield PrimusCharge 1.2kW (PSPC1200)
Hybrid Utility / Solar Power Station
1.2kW output with 768Wh capacity
2.5kW output with 1536Wh capacity



PowerShield PrimusCharge 3.0kW (PSPC3000)
Hybrid Utility / Solar Power Station
3kW output with 2.5kWh capacity



PowerShield PrimusCharge Expansion Battery Bank for PSPC3000 (PSPCBB100)

PSPC3000
Total 5kWh capacity

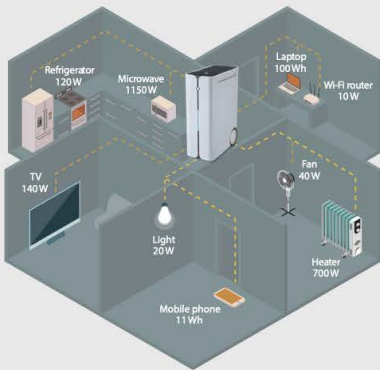


PSPCBB100 x2
PSPC3000
Total 7.5kWh capacity

- Equipped with A grade LiFePO4 Lithium-ion cell supporting more than 3000 lifecycles.
- 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 18kW output power for PrimusCharge 3.0kW
- Expandable battery capacity to 7.5kWh for PrimusCharge 3.0kW
- Built-in battery management system (BMS)
- Wifi + APP, remote control & monitor daily power consumption (only available for PrimusCharge 1.2kW/2.5kW Plus and 3kW models)
- 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 PrimusCharge 3.0kW
- Wireless charging (15w) only available for PrimusCharge 1.2kW/2.5kW Plus models
- Optional feed-in grid function only available for PrimusCharge 1.2kW/2.5kW Plus models

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

- Power 9 devices at the same time for over an hour
- Power essential appliances over 24 hours



- Backup time or charge times (Based on PrimusCharge 3.0kW model)

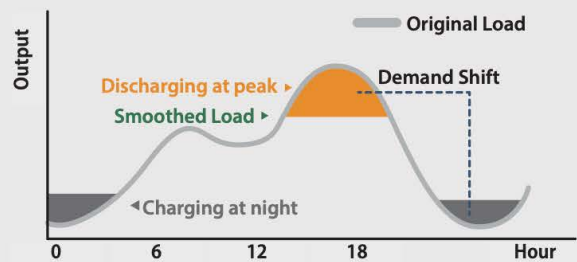
Heater 700W 3 Hrs	Refrigerator 120W 17-35 Hrs	Microwave 1150W 1.75 Hrs	TV 140W 20 Hrs	Light 20W 77 Hrs
Wi-Fi router 10W 77 Hrs	Fan 40W 40 Hrs	Mobile phone 11W 222 Charges	Laptop 100W 40 Charges	

Compact and mobility, plug & play in every where



Peak shaving

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 (only available for used on PrimusCharge 1.2kW/2.5kW Plus and 3kW models)



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



PowerShield PrimusCharge

1 hour 7X



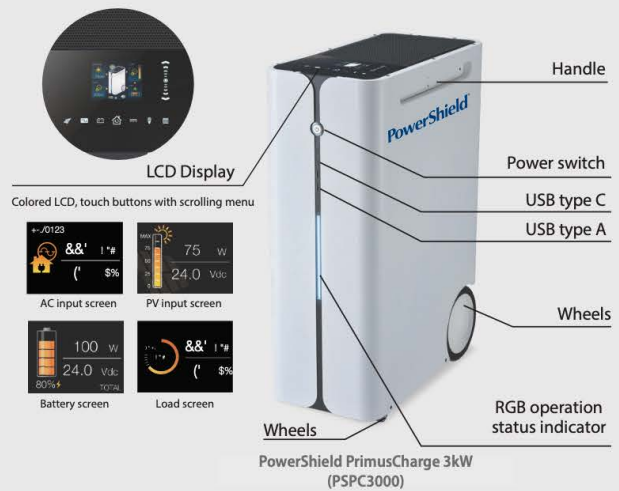
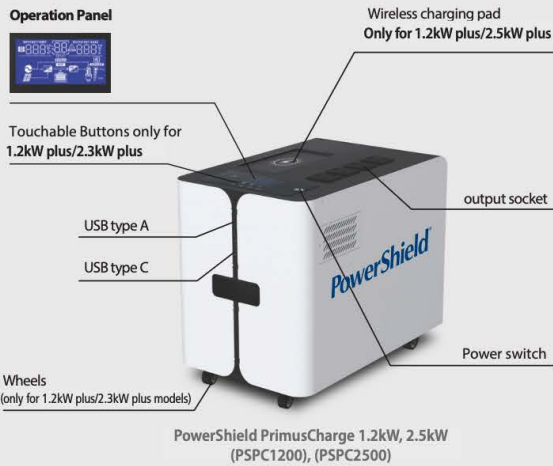
Other portable power station

5-9 hours

Easy export event logs through USB



Outlook

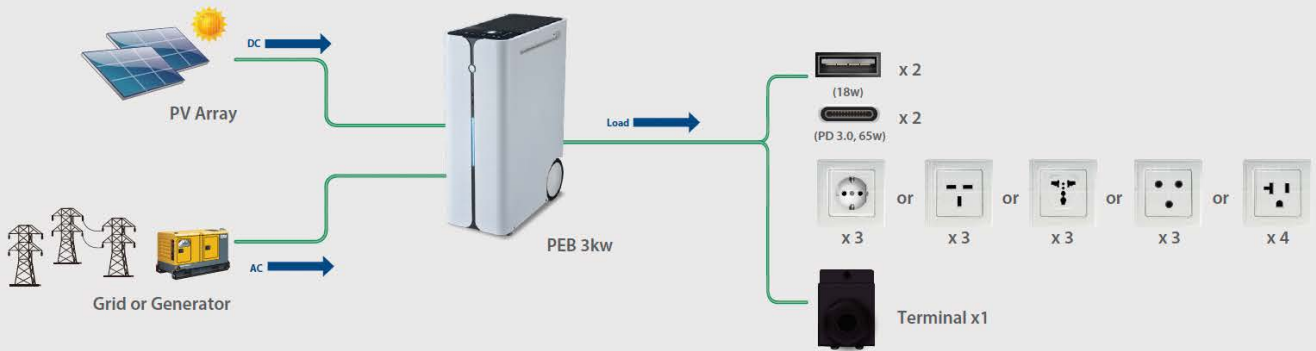


PowerShield PrimusCharge 1.2 kW, 2.5kW Rear Panel



PowerShield PrimusCharge 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

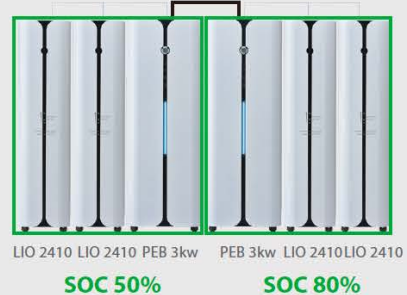


PEB 3kw in multiple units parallel, each battery is independent management, prolong maximum battery cycle life

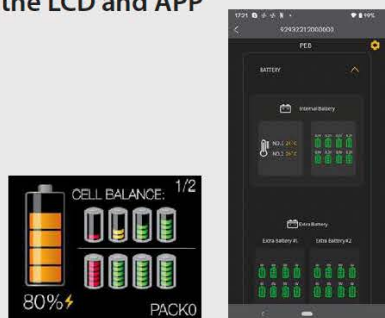
3kw + 3kw output
12.5kwh capacity



3kw + 3kw output
15kwh capacity



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



PowerShield PrimusCharge Specifications

INVERTER MODEL	PSPC1200 1.2kW	PSPC2500 2.5kW	PSPC3000 3.0kW
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)	93%		93%
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)		
Waveform	Pure Sine Wave		
Output Connectors	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
Outlets	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		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
Maximum 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)	28 VDC	28 VDC	29.2 VDC
Full Discharge Voltage (FD)	20 VDC	40 VDC	20 VDC
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	≥ 2500 cycles , 0.5C charging/discharging ≥50% @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		

PowerShield Primus Charge Expansion Battery Bank for PSPC3000

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.