

Portable Energy Bank 1.2KW / 2.5KW / 3KW



- Sinewave AC output Lithium-ion battery bank
- 30A (750w), 100A(3000w) built-in AC charger
- 30A (2000w/3000w), 100A(3000w) built-in solar charger
- ultra fast fully charging in one hour
- 3 AC outlets, 3 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

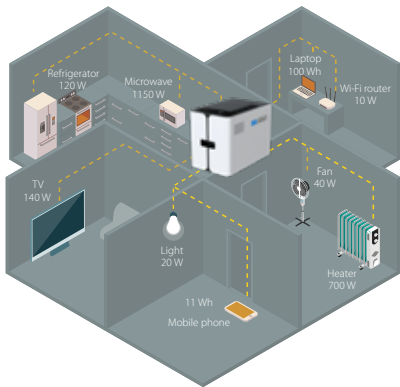


HYGE PEB 1.2kw, 2.5kw

HYGE PEB 3kw

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

HYGE PEB 1.2KW

Heater 700 W 1 Hrs	Refrigerator 120 W 5.7 Hrs	Microwave 1150 W 0.6 Hrs	TV 140 W 4.95 Hrs	Light 20 W 34.9 Hrs
Wi-Fi router 10 W 70 Hrs	Fan 40 W 17.4 Hrs	Mobile phone 11 W 66.3 Charges	Laptop 100 W 7.29 Charges	

HYGE PEB 2.5KW

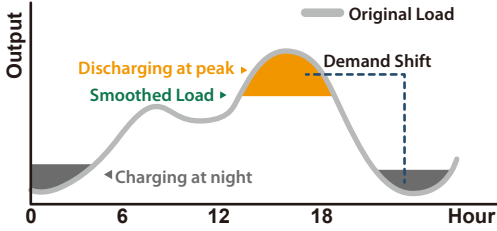
Heater 700 W 2 Hrs	Refrigerator 120 W 11.5 Hrs	Microwave 1150 W 1.2 Hrs	TV 140 W 10 Hrs	Light 20 W 70 Hrs
Wi-Fi router 10 W 140 Hrs	Fan 40 W 35 Hrs	Mobile phone 11 W 132.7 Charges	Laptop 100 W 14.6 Charges	

HYGE PEB 3KW

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	

Peak cut

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



0 – 90% in one hour

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



HYGE PEB

1 hour **7X**



Other portable power station

5-9 hours

Highly mobility and Plug & Use

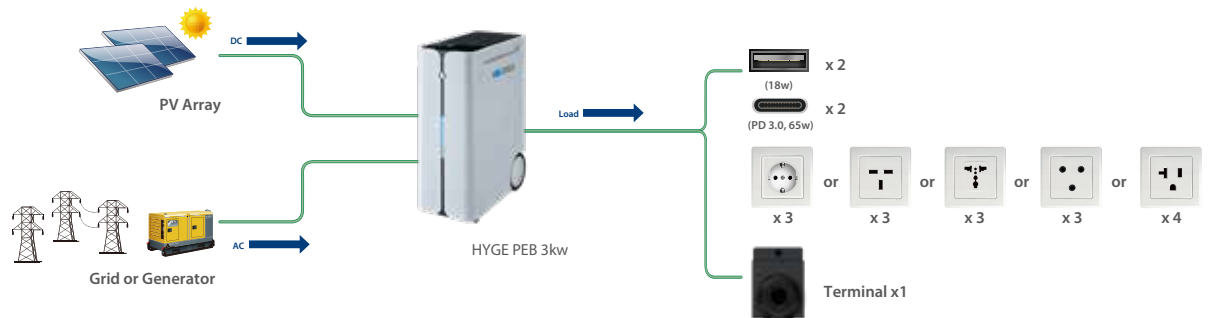
If you need to relocate the energy bank, simply unplug it and move it anywhere.



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



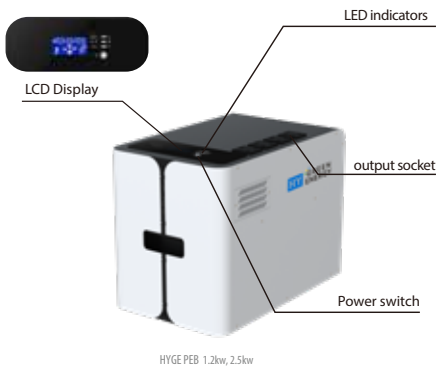
System Diagram



WiFi & APP



Outlook



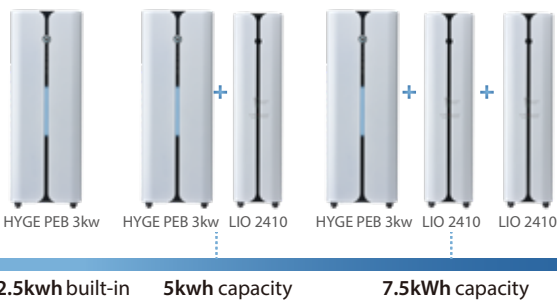
HYGE PEB 1.2kw, 2.5kw Rear Panel



HYGE PEB 3kw Rear Panel

Expandable capacity from 2.5kwh to 7.5kwh

Expandable capacity from 3kw to 6kw



HYGE PEB 3kw HYGE PEB 3kw
Front



Back

Portable Energy Bank Selection Guide

INVERTER MODEL	HYGE PEB 1.2KW	HYGE PEB 2.5KW	HYGE 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 4 or Schuko x 4 or Universal x 4 or South Africa x 4 or NEMA x 4
	USB Ports	Type A x 2 (QC 3.0, 18W x 2) Type C x 2 (PD 3.0, 65W x 2)	Type A x 2 (QC 3.0, 18W 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
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)	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	≥ 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)	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.