

4.8KWH ALL IN ONE BATTERY POWER STATION

5kW PV
SOLAX HYBRID INVERTER

4.8kWh
BATTERY STORAGE
SEAMLESSLY EXPANDABLE TO 9.6KWH

80% D.O.D.
DEPTH OF DISCHARGE

10 YEARS
BATTERY WARRANTY AT DAILY CYCLES

PowerWave is a privately owned, independent solar brand backed by Australia's largest Online Electrical Wholesaler, Tradezone. PowerWave specialises in sourcing premium solar products from the top national and international manufactures and combining them under a single brand. By doing so, our customers have the ability to buy a complete energy saving solution with the peace of mind that a local team and resources are standing by for the full duration of the product's life.

UNPARALLELED QUALITY ASSURANCE

The PowerWave All In One Battery Power Station combines two of China's most renowned Solar Companies - SolaX and Sunwoda

SolaX

SolaX Inverters are quickly becoming one of the most popular inverter brands within the Australian market. Each Inverter is designed, tested and manufactured to the highest global standards.

Sunwoda

Sunwoda is China's leading manufacturer of Li-ion battery modules and is the sole manufacture of batteries found in your Apple iPhones, iPads and Laptops. Their reliability and quantity control measures are industry leading.



EXCEPTIONAL PERFORMANCE WARRANTY

Guaranteed greater than 80% DOD after 10 Years based on daily cycles.



FAST, EASY INSTALLATION

The PowerWave All In One Battery Power Station boasts the most compact and stylish Power Station on the Market



ANYWHERE FROM ANY DEVICE

Cloud based real-time monitoring from any device



CONVENIENT, STYLISH DISPLAY

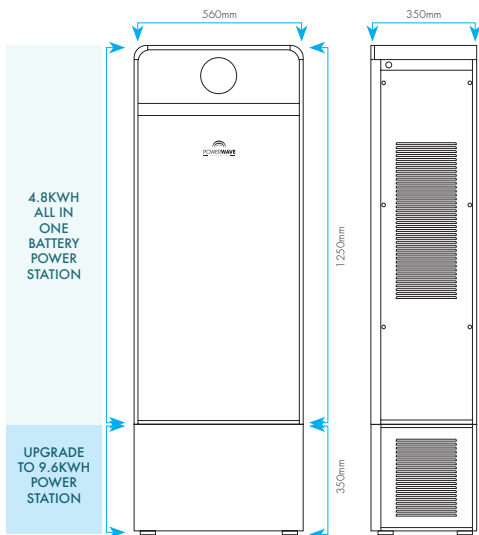
Integrated screen displaying live Battery Charge levels and remaining hours based on current house usage



UPGRADE WITH EASE

Future Proof Modular design allowing you to add a further 4.8kWh battery Storage seamlessly within the same footprint.

4.8KWH ALL IN ONE BATTERY POWER STATION

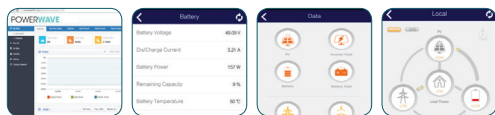


WxHxD: 560mmx350mmx1250mm (1600 with upgrade)
 Occupied area: 0.245m³
 Weight: 150kg (approx. 190kg with upgrade)
 Protection level: IP32
 Installation method: Floor-mounted, secured against wall

TRACKING OF YOUR SYSTEM ANYTIME AND ANYWHERE

Better understand your home's electricity usage with PowerWave's real-time monitoring function. From any remote computer or handheld device, view live data on:

- Home power consumption
- Battery power storage information
- Battery power and hours remaining
- PV system total power generation - power consumed/sold.
- System running mode
- Economic benefits
- Greenhouse gas emission reduced



ALSO AVAILABLE FROM POWERWAVE



270W 60 CELL POLY PANEL

325W 72 CELL POLY PANEL

4.8kWh STAND-ALONE BATTERY

WARRANTY

Warranty	5 year
Certificate	Germany, Australia, Belgium, Netherlands, Denmark, Austria, UK, Italy

INVERTER

INPUT DC

Max. recommend DC power	5000
Max. DC Voltage(V)	550
Normal DC operating Voltage (V)	360
MPPT Voltage Range (V)	125-530
Max. input current (A)	12./12
Max. short circuit current (A)	15./15
NO of MMP trackers	2
Strings per MMP tracker	1

OUTPUT AC

AC Nominal Power (W)	4600
AC Nominal Voltage Range (V)	230VAC 50/60HZ 180-270VAC
AC Nominal Current (A)	20
Max. AC current (A)	20
Total Harmonic Distortion (THD)	<3%
Power Factor (Rated Power)	1
Displacement Power Factor	0.9 leading to 0.9 lagging

EFFICIENCY

MPPT Efficiency	99.90%
Euro-Efficiency	97.00%
Max. Efficiency	97.60%
Standby Losses	<3W

BATTERY & BMU

GENERAL INFORMATION

Module type	Li-ion (LiFePO4)
Components	Battery Cells + BMS + Protection Device (fuse)
Battery capacity [kWh]	4.8
Max. charging current [A]	200
Charging curve	3-stage adaptive with maintenance
Over-current protection/ Over-temperature protection	Yes
Communication interfacess	Can/RS485

NOMINAL CHARACTERISTICS

Voltage [V]	48
Capacity [Ah]	200
Total Energy [Wh]	9600
Usable Energy [Wh]	8640
Energy Density [Wh/l] / [Wh/kg]	9600/128
Round Trip Efficiency (%)	>90 (with Standard Charging/Discharging Condition)
Standard Charging Condition (at 25°C)	CC-CV Charge Current: 40A(0.2CC) End Voltage/Current: 54V / 2.5A
Standard Discharging Condition (at 25°C)	CC Discharge Current: 100A(0.5CC) End Voltage: 40.5V

COMMUNICATION SPECIFICATIONS

Communication Protocol	CAN / RS485
Hard-wiring	Dry Contact 2ch
Communication Port	RJ48

OPERATION CONDITIONS

Operation Temperature [°C]	0 - 55 Optimal : 15 - 30
Operation Humidity[%]	5-95
Altitude [m]	Max. 2000

ELECTRICAL SPECIFICATIONS

Voltage Range [V]	40.5 - 54
Max. Charging Current [A]	200
Max. Discharging Current [A]	200

MECHANICAL SPECIFICATIONS

Cooling	Natural Convection
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OTHERS

DC Switch	Optional
Max. NO. of supported External Charger	1
Operating temperature Range (°C)	-10~+50 (derating at 40)
Storage Stability range (°C)	-20~+60
Altitude (M)	<2000
Cooling Concept	Natural Cooling
Noise Emission (typical) [dB]	<40
Humidity [%]	0-95 (non - condensing)
Protection class	IP32 (for indoor use)
Overvoltage Category	III (electric supply side), II (PV Side)
EMC Standard	IEC61000-6-1/2/3/4
Topology	Transformer-less

EPS WITH EXTERNAL CHARGER (SUPPORT 25A/50A/100A CHARGER)

EPS rated power [VA]	2000
EPS rated voltage [V], Frequency [Hz]	230, 50/60
EPS rated current [A]	11
EPS peak power [VA]	1.5*Prated,10s
Total harmonic distortion (THD)	<3%
Switch time [S]	<5

CHARGE

Max. power (W)	5000
Max. charge current [A]	200

DISCHARGE

Max. power (W)	4600
Max. discharge current (A)	200
Depth of discharge	80%

OTHERS

Cooling concept	Natural Convection
Noise emission (typical) [dB]	<40
Humidity [%]	0-95 (non-condensing)
Protection class	IP32
EMC standard	IEC61000-6-1/2/3/4
Warranty	5 year
Certificate	Germany, Australia, Belgium, Netherlands, Denmark, Austria, UK, Italy
Battery reverse polarity protection	Yes
Battery anti-shock design	Yes

STORAGE CONDITION

Temperature [°C]	-30 - 60
Operation Humidity (%)	5-95

CERTIFICATION

Safety	UL1642 (Cell level), UL1973 (Module level)
Transport	UN38.3
Environment	ROHS

* CC: Constant Current, CV: Constant Voltage

Standard Discharging Condition (at 25°C)	CC Discharge Current: 100A(0.5CC) End Voltage: 40.5V
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FUNCTIONAL FEATURES

Scalability	Parallel connection off up to 10 x 4.8kWh PowerWave battery.* Not acceptable to use two kinds of modules mixed
Circuit Protection	Fuse, Pre-charging circuit on discharging current path (70W, 60Ohm)