

High Power Hussh Pods

The High Power Hussh Pod PSS Modular BESS is series of modularised scalable battery energy storage systems suitable to use in utility applications and renewable energy storage applications.

This prefabricated system consists of approved lithium-ion battery strings, BMS, EMS, PCS, transformer, fire suppression system, and a cooling unit. This helps ensure your power continuity, optimise your energy bills by peak-shaving and load-shifting, and reduce your total cost of ownership by taking part to micro auxiliary service.

CORE FEATURES

- ✓ On Grid, Island Mode and Hybrid Support
- ✓ Modular Design
- ✓ Long Life and Stabilised discharge
- ✓ Cloud Based Dispatch
- ✓ Accurate and consistent balancing
- ✓ RTU Based Control & IP54 Protection Rating
- ✓ Up to eight unit microgrid within 3-mile radius



Why Choose

High Power Hussh Pods



Cost Effective

- Increase power output in short time compared with other power solutions.
- Reduced installation costs.
- Reduces energy costs and reduces high demands
- Flexible business model available for sale or hire.



Smart

- Integrates with AC Grid or Hybrid Generator.
- Power source is independent allowing for micro grid applications.
- Energy optimisation dramatically reduce energy costs.



Scalable

- Modular design for quick and easy scalability.
- Stackable for reduced footprint.
- Scale up to eight units on one micro grid in a 3-mile radius.
- Power sharing and optimisation.



Fast

- Fast to deploy and re-deploy.
- Deliver fast power response.
- Fast to deliver new technology & charging rates.



Mobile

- Robust construction allowing for redeployment of temporary or semi temporary sites installation.
- ISO standard specifications BESS storage system ready for installation.
- Can be deployed to any location.
- Can be placed behind the meter.



Future Proof

- Designed to meet current and future energy demands and give resilience in controlling your energy usage.



Safe

- Designed with cooling, BMS, fire suppression (optional) for optimal conditions with performance and longevity.
- All in one energy storage BESS system UL9450a compliant.

What makes PSS High Power unique?

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Manufacturing Ambition

The PSS Energy Storage system is built with high-quality materials and innovative technology, robust engineered construction ready for install, full integrated hardware and software solution in one-unit, dynamic software optimisation for all application in one system or up to eight systems in parallel allowing for up to 1.2MW of usable power available.

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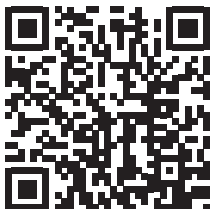
Strategic Drive Modes

AFE (Active Front End) Control

Keep a constant DC Voltage, transferring the power between DC and AC.

Island (Static Power Supply) Mode

Generates a constant Voltage and Frequency.



Learn More about
**High Power
Hussh Pods**

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Flexible Scalability

It's modular architecture allows for easy customisation and expansion, enabling businesses to adjust their energy storage capacity as needed, promoting efficient resource management and cost-effectiveness, suitable for grid integration and allow optimised generator set operation in tandem to provide increased power output and/or increase the battery energy capacity.

3

Commitment to Sustainability

PSS Energy Storage actively supports renewable energy integration, significantly lowering carbon emissions and appealing to support the reduction in carbon, thus aligning with governmental target for 100% carbon free power generation by 2035 target.



⚡ The Future For Electrification ⚡

Decarbonisation 1

Organisations adopting decarbonisation lead into our target to get 100% power generation carbon free by 2035.

Digitalisation 2

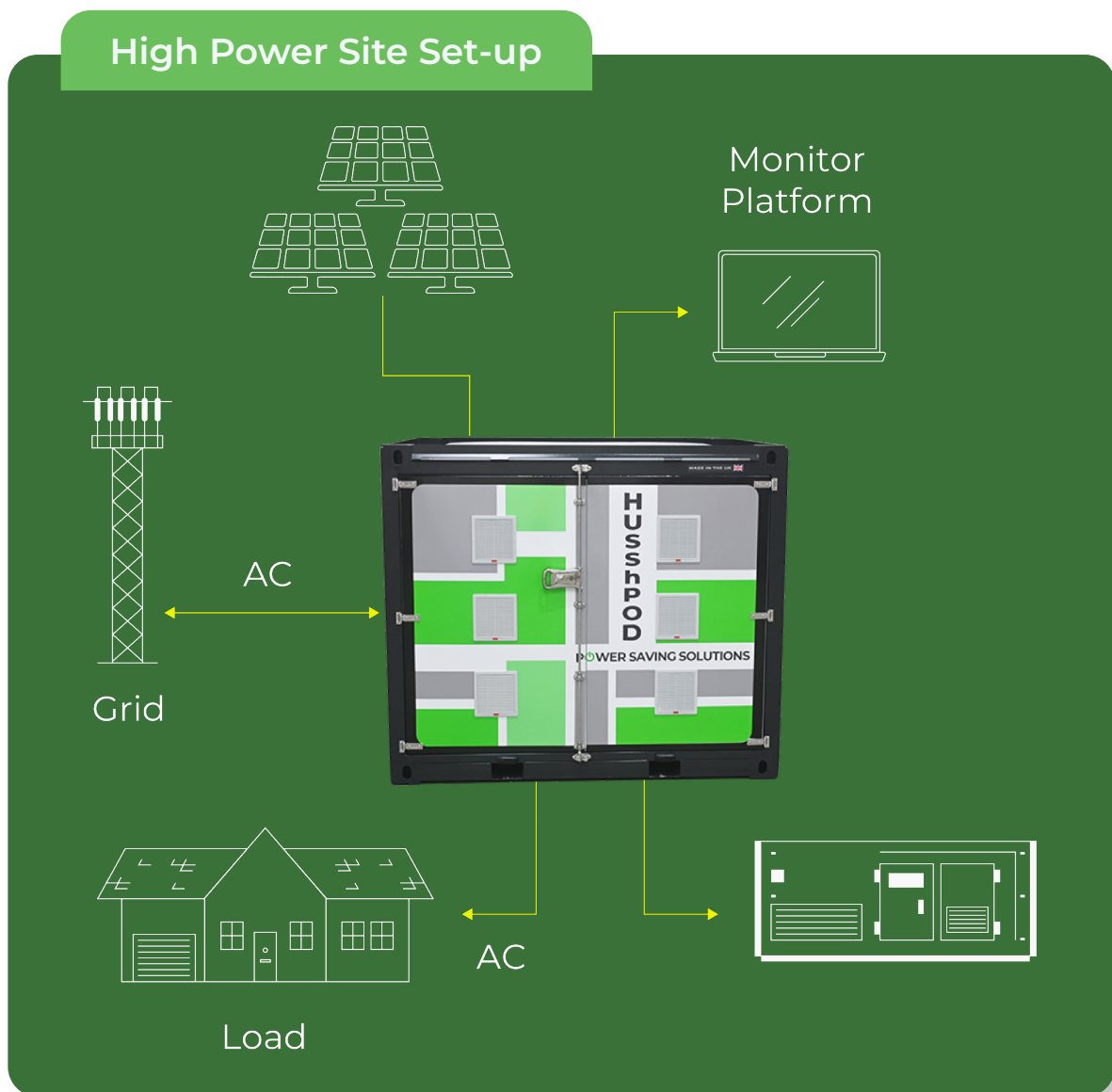
Implementing our advanced technologies through our renewable energy solution allow full optimisation to the system.

Decentralisation 3

To meet the increase demand in local power energy storage for edge grid and hybrid technology applications.

Democratisation 4

Full technology support for the electrification expansion with DER ready, fully mobile scalable system.



System Technical Specifications

150/150

DC Data

Battery Chemistry	Lithium Iron Phosphate
Cell Life Cycle	5000 Cycles 80% Retention @1C 25°C
Cell Spec	51.2/230Ah
String Configuration	1P244S
Number of Strings	1
DC Rated Energy Capacity	164.8Kwh
Rated Voltage	716.6V
Voltage Range	645-940V
BMS Communication Interface	RS485, Ethernet
BMS Communication Protocol	Modbus- RTU, Modbus- TCP

AC Data

Rated AC Power	150kW
Maximum AC Power	164.8kW
Rated Voltage	400v
Grid Voltage Range	342 - 418v (Configurable)
AC Line Current	237A
Output THDi	<3%
AC Power Factor	0.1-1 Leading or Lagging (Controllable)
AC Output	3 Phase 4 Wire+PE 700A Pass-through

General Information

Dimensions (LxWxH)	2400mm x 1580mm x 2200mm
Weight	3500kg
Degree of Protection	IP54
Operating Temperature Range	-20 ~40°C
Charging Temperature Range	0 ~40°C
Relative Humidity	0-95% (non-condensing)
Working Altitude	Max 3000m/10000Feet (>2000m/ 6500Feet Derating)
Cooling Concept	Air Cooling (Liquid Optional)
Fire Suppression System	FM-200 (Optional)
Communication Interfaces	RS485, Ethernet, GPRS, Modbus
Certificates	EN 62040-1:2008/ A1:2013 EN 62311:2008 EN 61000-6-1:2007 EN 61000-6-3:2007/ A1:2011 EN 301 511 V12.5.1



POWER SAVING SOLUTIONS

HOME OF THE HUSSH POD