



HBD-405-440 R

**Battery Energy Storage System (BESS)
for clean and sustainable energy**

TECHNICAL SPECIFICATIONS



HBD-405-440 R

Battery Energy Storage System (BESS)



What is the HBD-405-440 R?

A rechargeable Battery Energy Storage System (BESS), designed to store and seamlessly distribute instant power to multiple commercial and industrial electrical loads. The BESS delivers the power to work anywhere, providing access to environments where there are challenges with grid availability and stability.

Maximise your renewable potential and experience the value of uninterrupted power!

What can it power?

It is best suited to power equipment with intermittent or high current load characteristics such as tower cranes, passenger hoists, batching machines, and welders. Other common applications include remote area communities, construction site base loads, electrified plant such as cranes and earthmoving equipment plus grid stabilisation applications.

How does it work?

This modular solution includes batteries, power conversion system (PCS), control system, battery cooling, and a fire suppression system. It can be connected to external PV power and grid power. It will perform load sharing with the synchronised connection of a diesel generator, supplying extra power in critical moments. Environmentally friendly, no emissions and low noise. Reducing grid dependency, improving power supply quality and ensuring the power consumption of emergency loads. Furthermore, charging at off-peak times effectively reduces charging costs. Real time intelligent monitoring of operational data can be achieved through the touch screen.

Why choose the HBD-405-440 R?



Cost Saving

Reduces 80% of fuel costs



Eco-friendly

100% electricity, no diesel needed



Quiet

Suitable for residential and noise sensitive areas



Fast Charging

High power input



Zero Downtime

Constant uptime via ready to deliver stored energy



Plug-and-play system

Industry standard connection points



Hybrid Mode

Synchronisable with other BESS, the Grid, and Diesel Generators for higher output

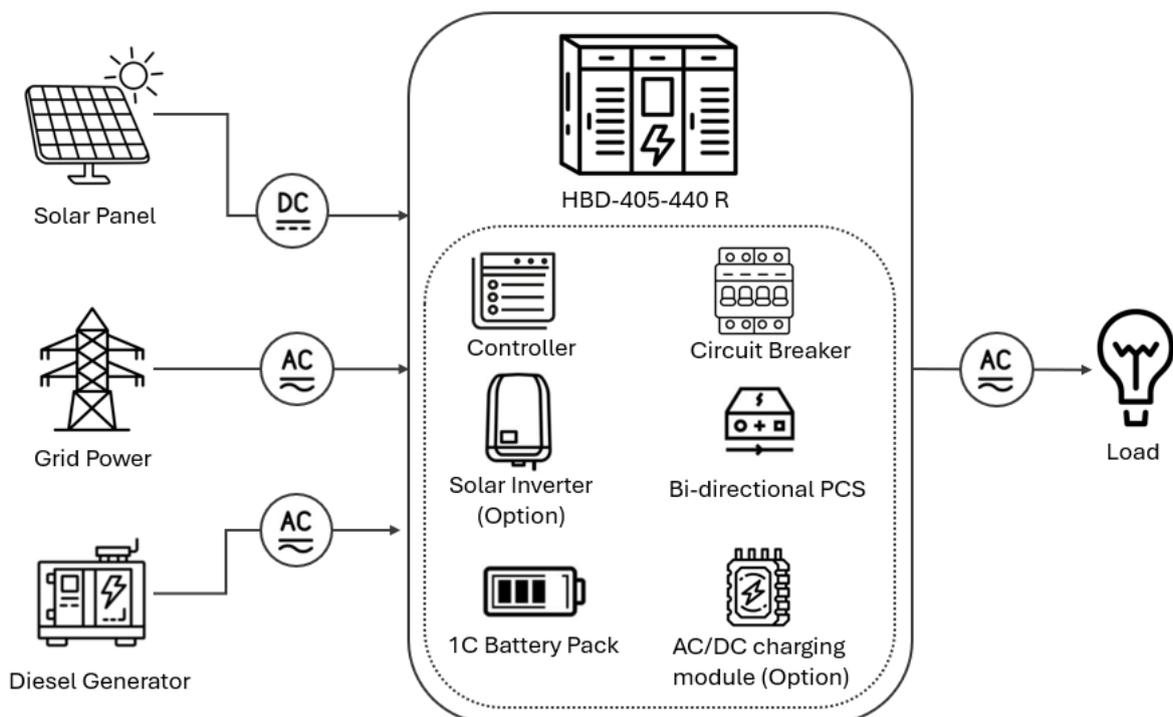


Built-in fire-safety system

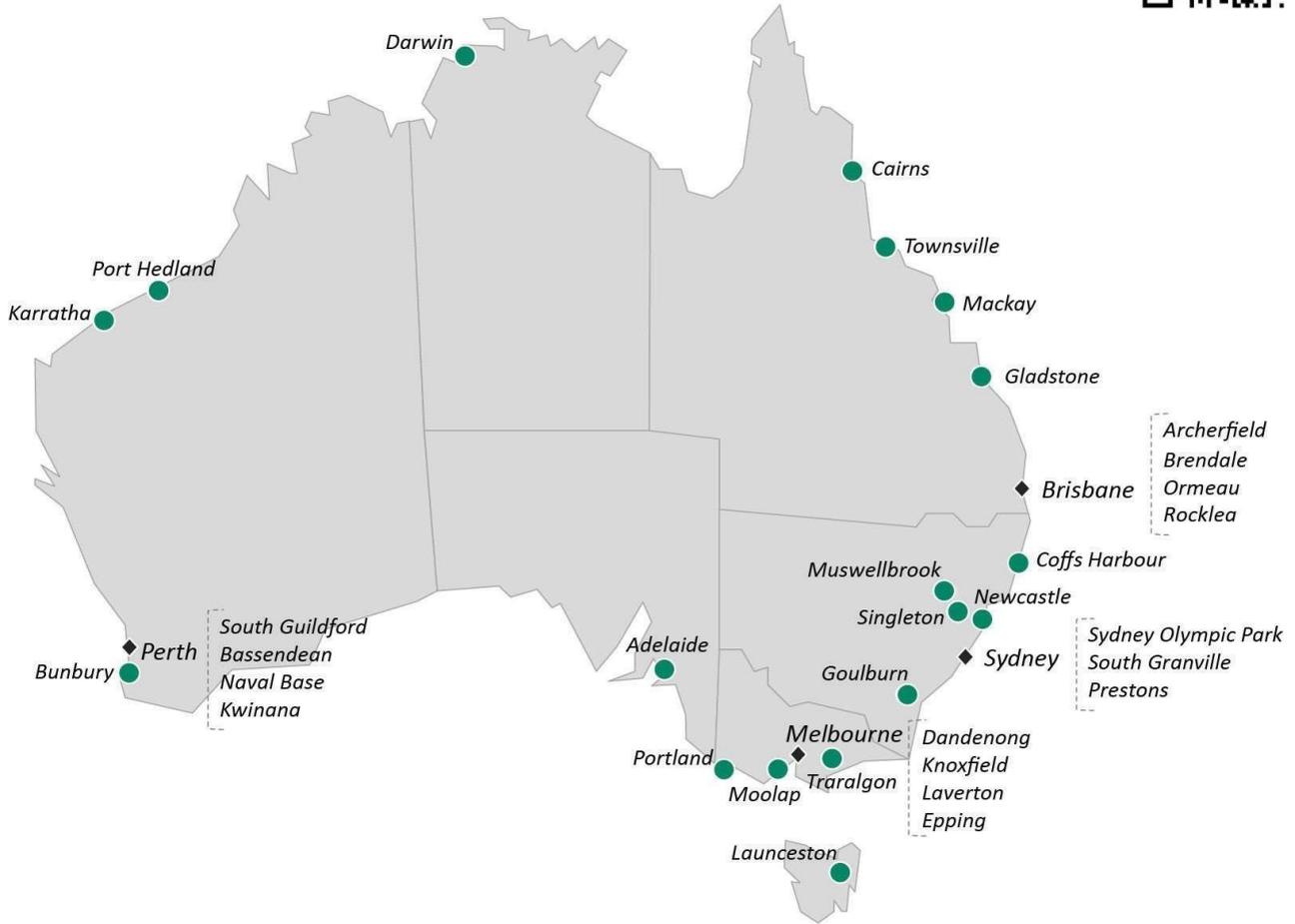
Aerosol fire suppression system with heat, smoke, and gas detection

Specifications

Model	HBD-405-440 R
Nominal Rated Output Power@25°C	405 kW
Nominal Rated Output Voltage	380V ~ 440V @ 50Hz / 60Hz, 3ph. 4W (400V, 415V & 480V available)
Nominal Energy Storage Capacity	441 kWh
Max. Current (AC)	615 A
Max. Output Power	445 kW (1 hour)
Dimensions (L x W x H)	2350 x 2250 x 2250 mm
Weight	7200 kg
Operating Temperature Range	-40~55°C (>50°C derating)
Input mode	Power Grid, Solar Energy, Generators
Communication	CAN / RS485 / Ethernet / 5G wireless
Certifications	UL, IEC, IEE, EN, VDE
Ingress Protection	IP55
Cooling System	HVLC
Fire Protection System	Aerosol Fire Suppression (CE)
Cell Type	LFP (LiFePO ₄)
Expected Lifetime	> 10 years
Battery System Voltage	832 VDC



TUTT BRYANT POWER PRODUCTS & SERVICES LOCATIONS



NSW

SYDNEY

6-8 Ferngrove Place
South Granville 2142
02 9780 7200

QLD

BRISBANE

539 Boundary Road
Archerfield 4108
07 3373 6400

SA

ADELAIDE

908 Main North Road
Mawson Lakes 5095
08 8162 0900

WA

PERTH

50 Great Eastern Highway
South Guildford 6055
08 9478 0600

BUNBURY

6-10 Hawkins Street
East Bunbury 6230
08 9796 8700

VIC

DANDENONG

80-86 Frankston-Dandenong Road
Dandenong 3175
03 9554 0300

EPPING

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Epping 3076
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