



# HBD-250-400 R

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

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TECHNICAL SPECIFICATIONS

# HBD-250-400 R

## Battery Energy Storage System (BESS)



### What is the Tutt Bryant Power HBD-250-400 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. The R stands for Rental; this unit comes with integrated forklift pockets, power outlets and more.

Maximize 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 stabilization 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 synchronized 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-250-400 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

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

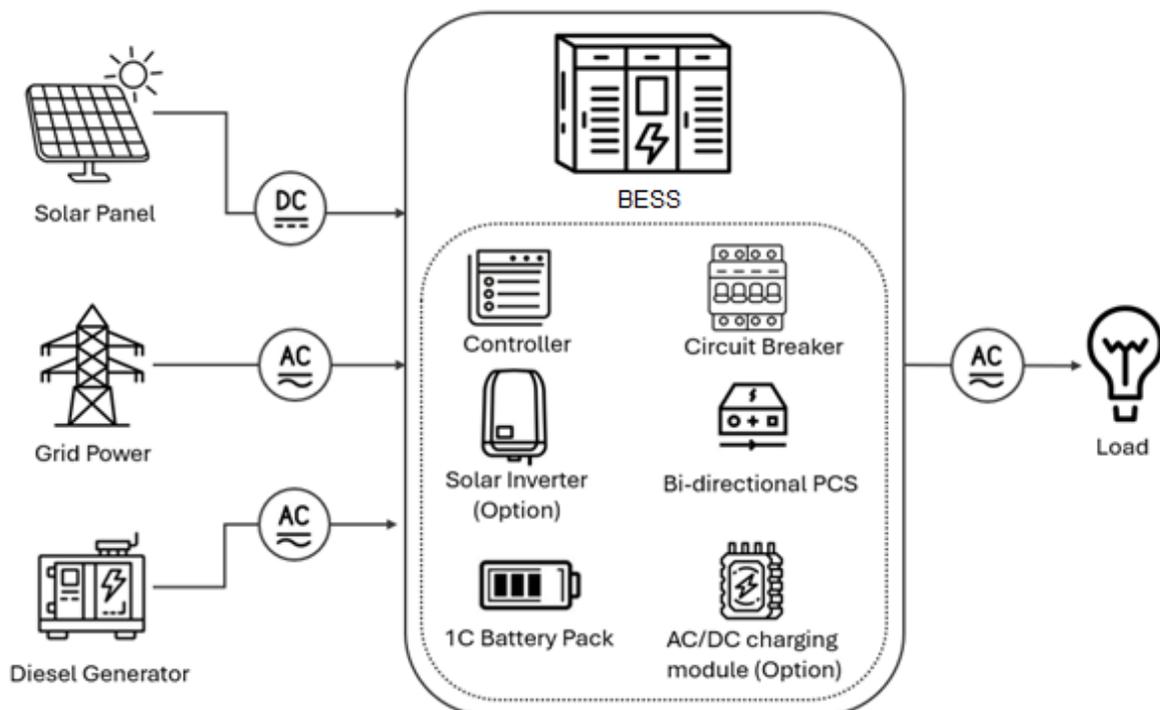


#### Built-in fire-safety system

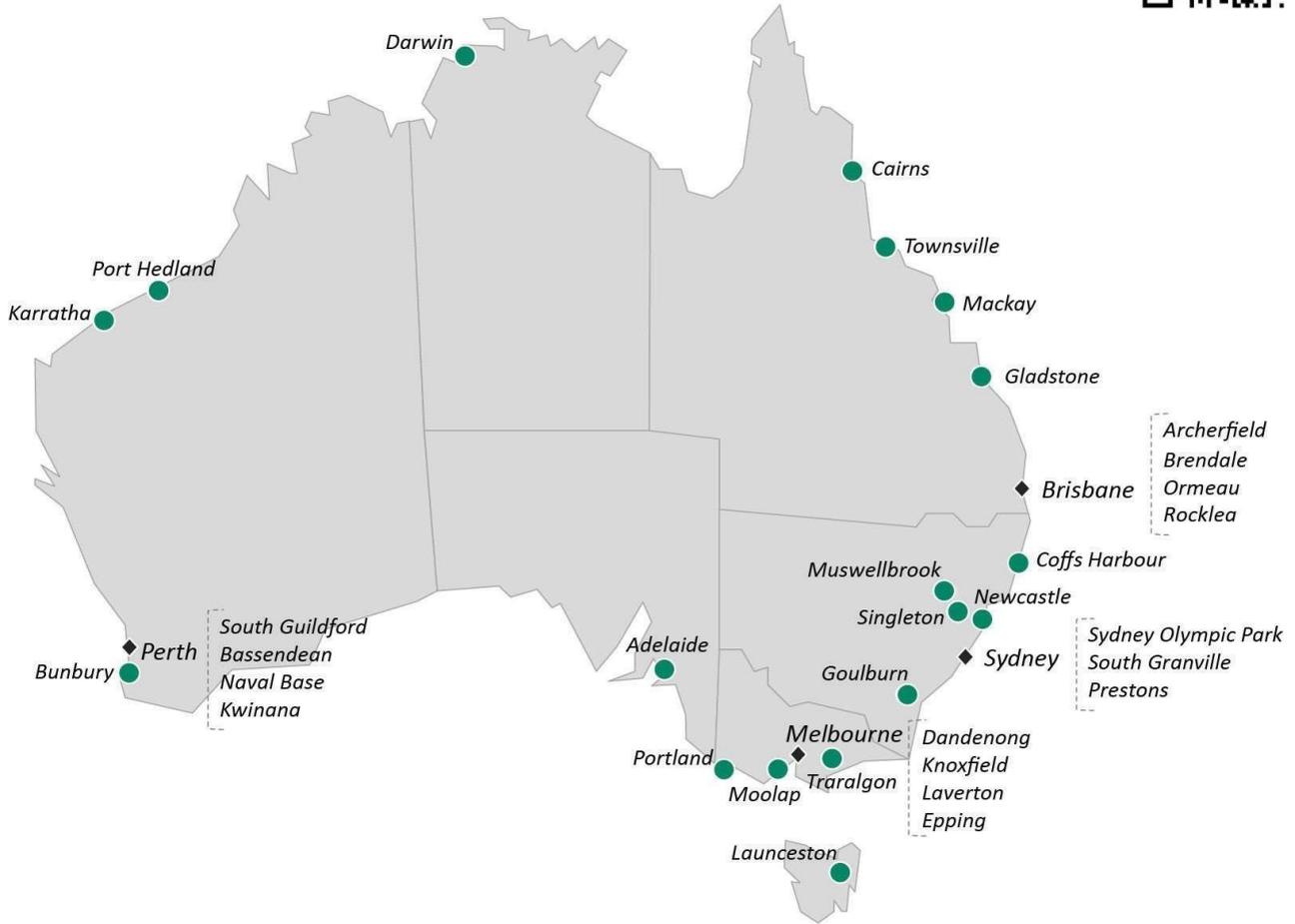
Aerosol fire suppression system with heat, smoke, and gas detection

## Specifications

Model	HBD-250-400 R
Nominal Rated Output Power@25°C	250 kW
Nominal Rated Output Voltage	380V @50Hz / 60Hz, 3ph. (400V & 415V available)
Nominal Energy Storage Capacity	401.4 kWh
Max. Current (AC)	364 A
Max. Output Power	300 kW
Dimensions (L x W x H)	2950 x 2250 x 2250 mm
Weight	7600 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	IP54
Cooling System	HVAC
Fire Protection System	Aerosol Fire Suppression (CE)
Cell Type	LFP (LiFePO <sub>4</sub> )
Expected Lifetime	> 10 years
Battery System Voltage	716.8 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

1/189 O'Herns Road  
Epping 3076  
03 9554 0380

**1300 658 888**

[tuttbryantpower.com.au](http://tuttbryantpower.com.au) | [powergen@tuttbryant.com.au](mailto:powergen@tuttbryant.com.au)

