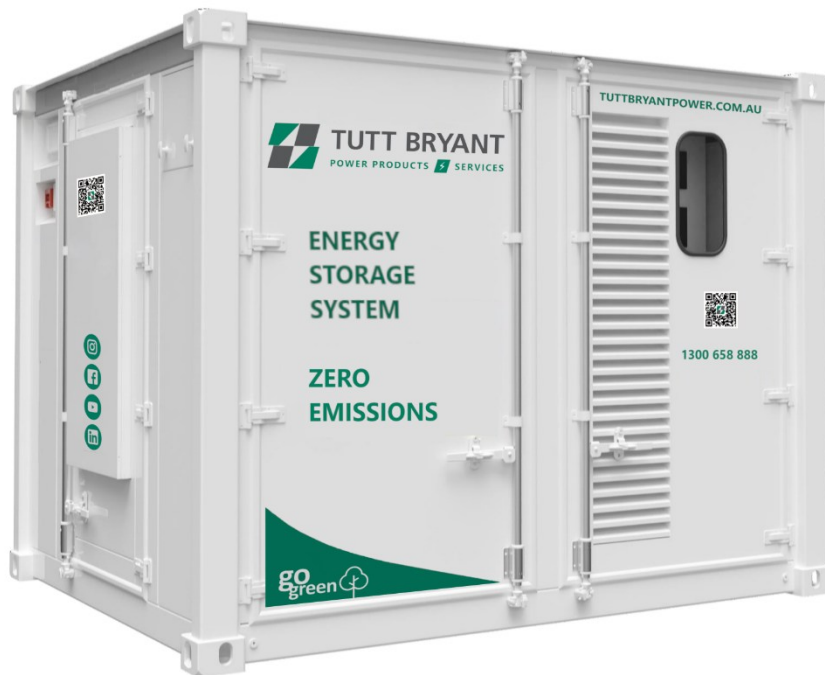




HBD-500-250 R

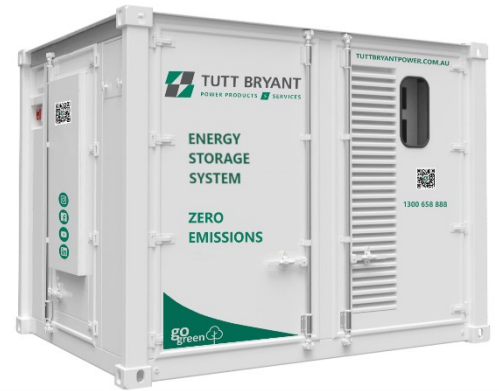
**Battery Energy Storage System (BESS)
for clean and sustainable energy**

TECHNICAL SPECIFICATIONS



HBD-500-250 R

Battery Energy Storage System (BESS)



What is the Tutt Bryant Power HBD-500-250 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-500-250 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

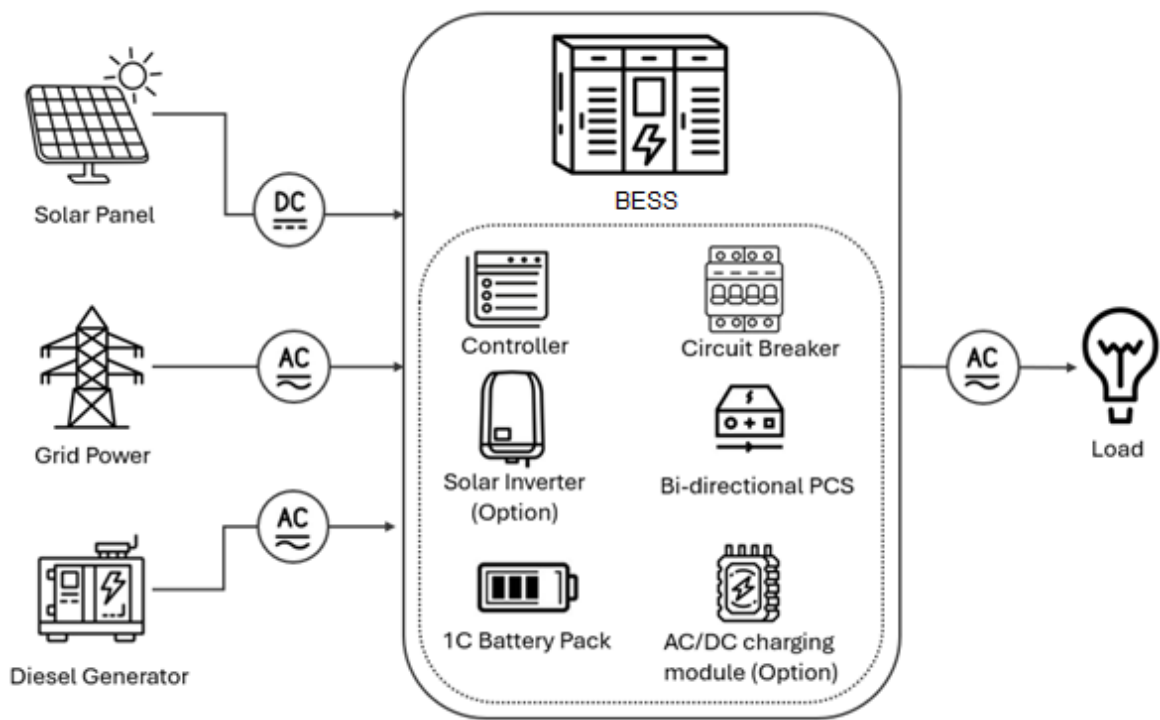


Built-in fire-safety system

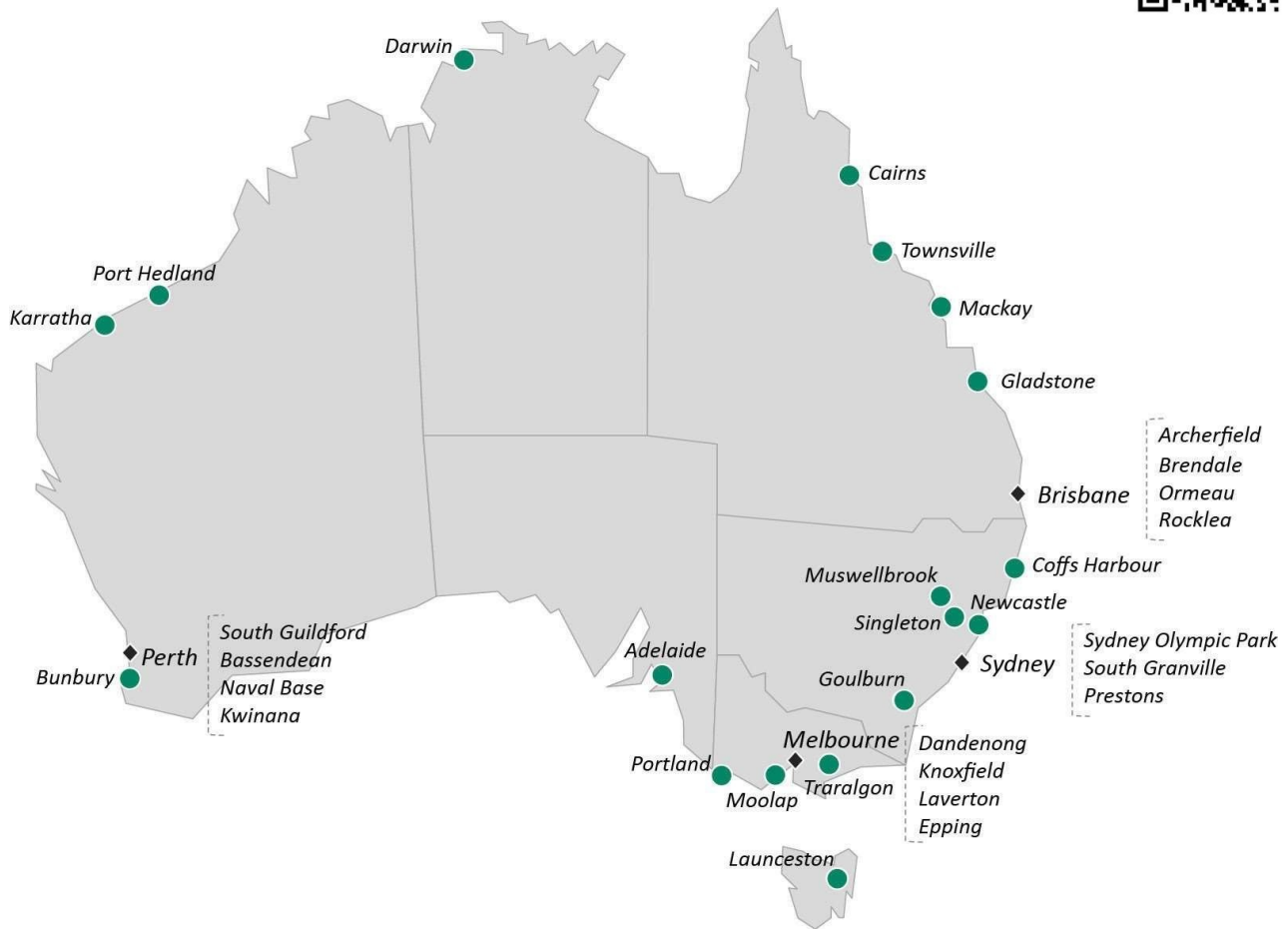
Aerosol fire suppression system with heat, smoke, and gas detection

Specifications

Model	HBD-500-250 R
Nominal Rated Output Power@25°C	500 kW
Nominal Rated Output Voltage	380V @50Hz / 60Hz, 3ph. (400V & 415V available)
Nominal Energy Storage Capacity	245.8 kWh
Max. Current (AC)	722 A
Max. Output Power	600 kW (1 minute)
Dimensions (L x W x H)	3950 x 2250 x 2250 mm
Weight	7000 kg
Operating Temperature Range	-20~50°C (>45°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 ₄)
Expected Lifetime	> 10 years
Battery System Voltage	768 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 | powergen@tuttbryant.com.au

