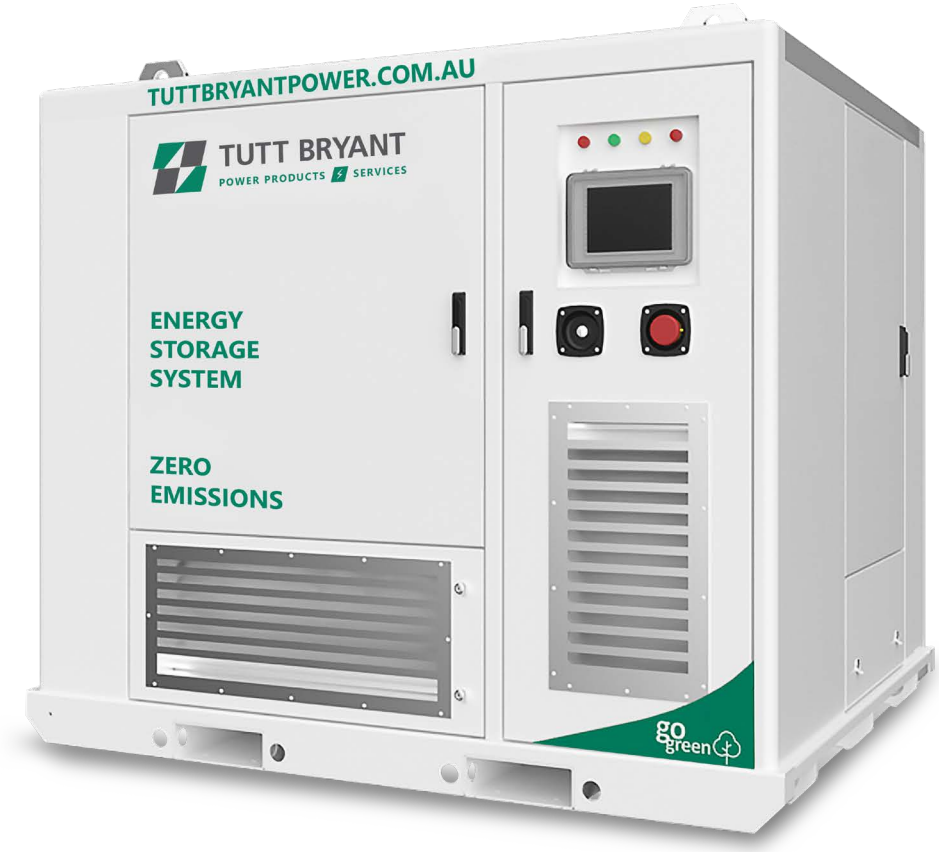
TUTT BRYANT
POWER PRODUCTS SERVICES

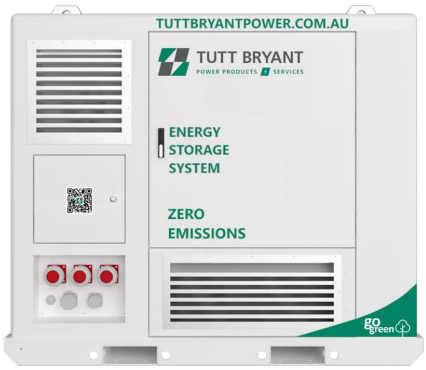



# HBD-100-100 R

## Battery Energy Storage System (BESS)

for clean and sustainable energy

TECHNICAL SPECIFICATIONS




# HBD-100-100 R

## Battery Energy Storage System (BESS)

## What is the Tutt Bryant Power HBD-100-100 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 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-100-100 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

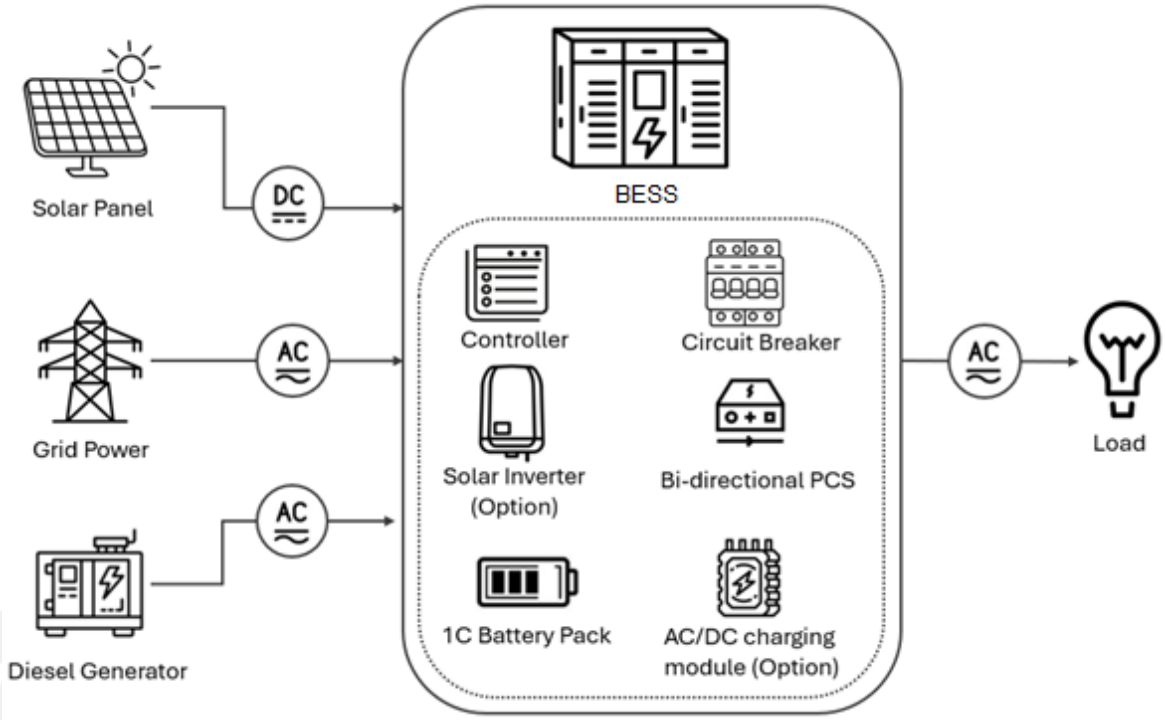
Synchronisable with other BESS, the Grid, and Diesel Generators for higher output

### Built-in fire-safety system

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

## Specifications

| ITEM | |
|---|---|
| Model | HBD-100-100 R |
| Nominal Rated Output Power @ 25°C | 100 kW |
| Nominal Rated Output Voltage | 380V @ 50Hz / 60Hz, 3ph.<br>(400V & 415V available) |
| Nominal Energy Storage Capacity | 107.5 kWh |
| Max. Current (AC) | 144 A |
| Max. Output Power | 117 kW |
| Dimensions (L x W x H) | 2430 x 1825 x 2250 mm |
| Weight | 4000 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 ($LiFePO_4$) |
| Expected Lifetime | > 10 years |
| Battery System Voltage | 537.6 VDC |



# TUTT BRYANT GO GREEN

## ABOUT

**Tutt Bryant Go Green** aims to introduce innovative and sustainable products, services, and solutions to the domestic market by tapping into the vast and diverse network of global partners and suppliers that have been meticulously assembled by Tutt Bryant over the years.

It is also Tutt Bryant's goal to develop home-grown solutions that are optimised to Australia's unique conditions by utilising in-house capabilities and collaborating with local enterprises.

Go Green provides a reliable national approach, aligned with our customers sustainability targets including:

- Energy Efficiency
- Plant Electrification
- Low Carbon Fuels and Energy Sources

### Our Approach

The Tutt Bryant Go Green initiative seeks to increase the sustainable options available in Tutt Bryant's portfolio through:

- Working with our committed OEM partners
- Broad collaboration with a multi divisional focus
- Leveraging from our depth in resources
- Reliable National approach
- Financing options
- Balance of Plant capability
- Testing facilities
- Aligning growth with our customers

## TUTT BRYANT POWER PRODUCTS & SERVICES LOCATIONS

### NSW

**SYDNEY**
23 Grahams Hill Road
Narellan 2567
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**
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