TUTT BRYANT
POWER PRODUCTS SERVICES

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.

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-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

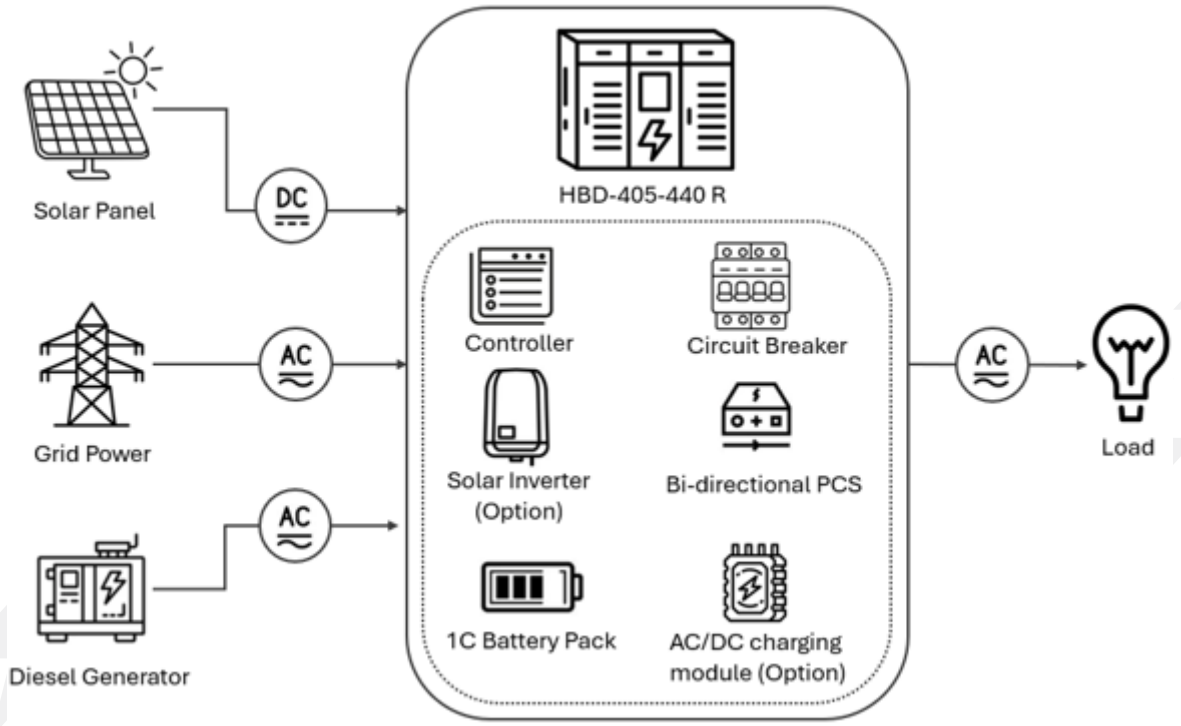
Synchronisable with other BESS, the Grid, and Diesel Generators for higher output

Built-in fire-safety system

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

Specifications

ITEM	
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 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
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TUTT BRYANT POWER PRODUCTS & SERVICES

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