TUTT BRYANT
POWER PRODUCTS SERVICES

HBD-50-110 E

Battery Energy Storage System (BESS)

for clean and sustainable energy

TECHNICAL SPECIFICATIONS

HBD-50-110 E

Battery Energy Storage System (BESS)

What is the Tutt Bryant Power HBD-50-110 E?

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 in areas without a stable grid power supply, such as residential. Other common applications include remote area communities and construction site base loads.

How does it work?

This modular solution includes batteries, power conversion system (PCS), control system, battery cooling, and a fire suppression system. The scalable design supports expansion. It can be connected to external PV power, diesel generator and grid power. It can perform a seamless changeover with other power sources, supplying 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-50-110 E?

Cost Saving

Reduces of fuel costs

Eco-friendly

100% electricity

Quiet

Suitable for noise sensitive areas, with work indicator light

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

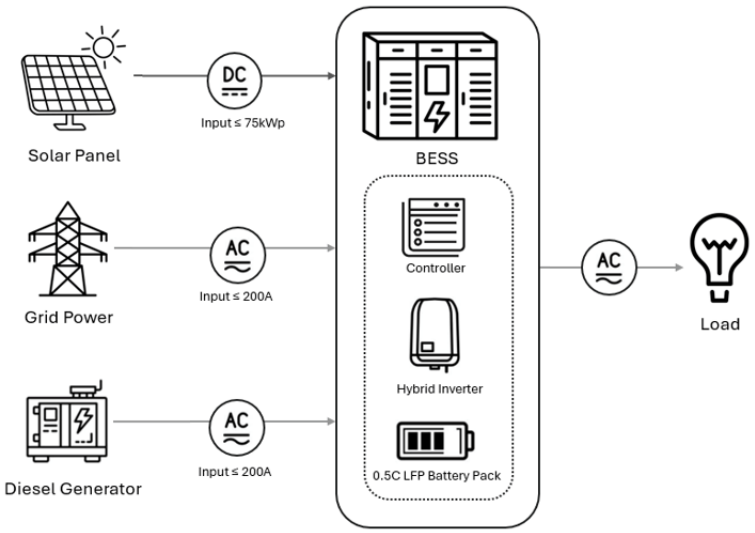
Synchronisable with other BESS, the Grid, and Diesel Generators

Built-in fire-safety system

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

Specifications

ITEM	
Model	HBD-50-110 E
Nominal Rated Output Power @ 25°C	50 kW
Nominal Rated Output Voltage	380V @ 50Hz 3ph (400V & 415V available)
Nominal Energy Storage Capacity	112.54 kWh
Max. Current (AC)	Discharge 125 A / Charge 125 A
Dimensions (L x W x H)	1150 x 1165 x 2135 mm
Weight	2000 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



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

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TUTT BRYANT POWER PRODUCTS SERVICES

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