



# HBD-20-40 E

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

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TECHNICAL SPECIFICATIONS

# HBD-20-40 E

## Battery Energy Storage System (BESS)



### What is the Tutt Bryant Power HBD-20-40 E?

A rechargeable Battery Energy Storage System (BESS), designed to store and seamlessly distribute instant power to multiple commercial and residential 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-20-40 E?



#### Cost Saving

Reduces 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

Synchronizable with other BESS, the Grid, and Diesel Generators

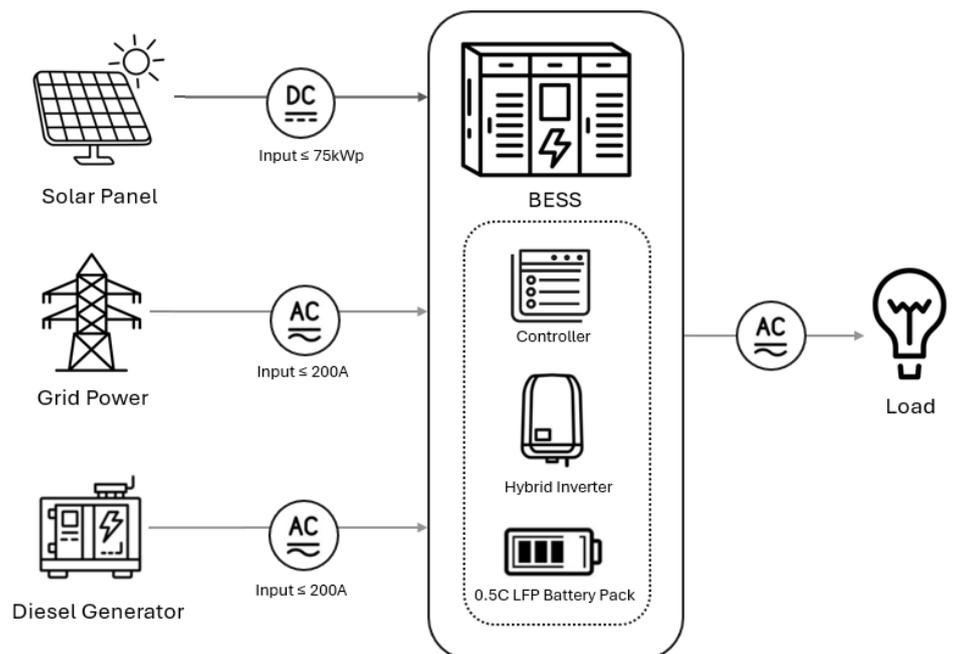


#### Built-in fire-safety system

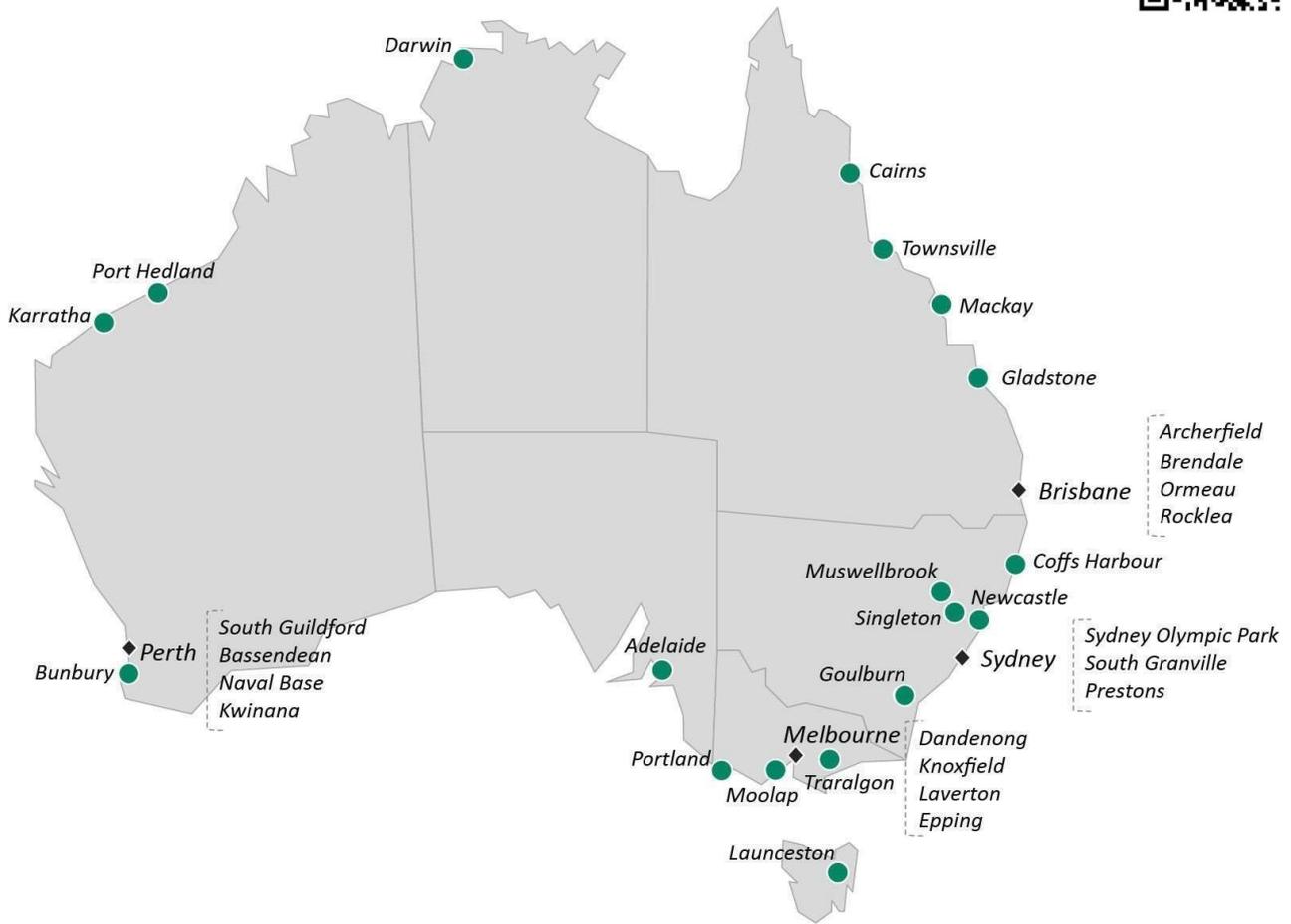
Aerosol fire suppression system with heat, smoke, and gas detection

## Specifications

Model	HBD-20-40 E
Nominal Rated Output Power@25°C	40 kW
Nominal Rated Output Voltage	380V @50Hz, 3ph (400V & 415V available)
Nominal Energy Storage Capacity	40.96 kWh
Max. Current (AC)	Discharge 32 A / Charge 58 A
Dimensions (L x W x H)	1029 x 940 x 2000 mm
Weight	1000 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 <sub>4</sub> )
Expected Lifetime	> 10 years



# 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**

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