TUTT BRYANT
POWER PRODUCTS SERVICES

P150 and M150

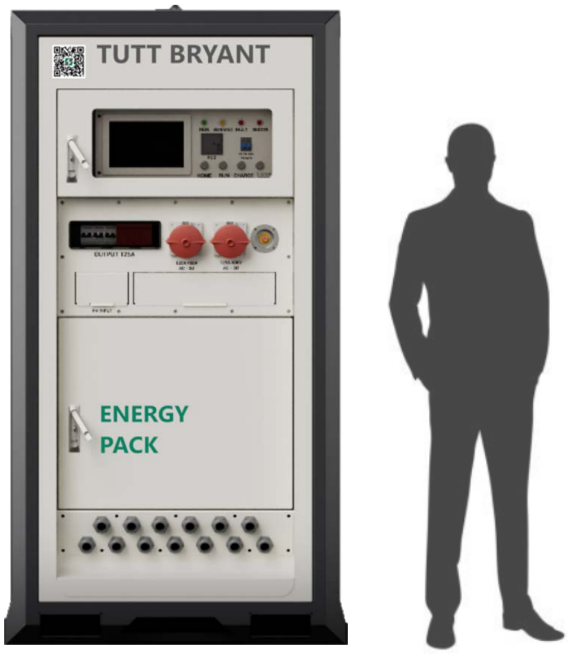
Energy Pack

Integrates Grid, Generator, and Solar Charging
Mobile Standalone Power System

TECHNICAL SPECIFICATIONS

P150 and M150

Mobile Standalone Power System



What are the P150 and M150?

A rechargeable Energy Storage System, designed to store and seamlessly distribute instant power to multiple commercial and industrial electrical loads. The Energy Pack delivers the power to work anywhere, providing access to environments where there are challenges with grid availability and stability.

Maximise your renewable potential and experience the value of uninterrupted power! And contact our Tutt Bryant Power team to talk about your project

What can it power?

It is best suited to pair with a diesel generator in a hybrid solution. Powering equipment with intermittent or high current load characteristics such as tower cranes, passenger hoists, and welders. Other common applications include large scale events, powering rental equipment, remote area communities, construction site base loads, electrified plant such as earthmoving equipment plus grid stabilization applications.

How does it work?

This modular solution includes batteries, PCS, control system, battery cooling, and a fire suppression system. It will perform load sharing with the synchronised connection of a diesel generator or grid, supplying extra power in critical moments. Achieve up to 80% in cost savings through fuel optimisation, peak shaving and valley filling (arbitrage). 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 viewed on the display and multiple communication protocols are provided, simplifying the integration with asset management platforms.

Why choose Tutt Bryant Energy Packs?

Intelligent Microgrid

Integrating Solar, Grid, and Genset sources using seamless transitions in a resilient microgrid

Eco-friendly

100% electricity

Zero Downtime

Constant uptime via ready to deliver stored energy

Hybrid Mode

Synchronisable with the Grid, and Diesel Generators for higher output

Genset Power Boost

Energy Pack pairs with Gensets using Virtual Synchronous technology to smooth power surges

Grid Services

Use Energy Pack rapid-response to support grid services and monetise your asset

Plug-and-play system

Industry standard connection points

Built-in fire safety system

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

Specifications

ITEM		
Model	P150	M150
Mode	Island	
Nominal Rated Output Power @ 25°C	170 kVA	150 kVA
Peak Capacity	400 kVA (10 seconds)	225 kVA (3 seconds)
On Board Charger	80kW	
Nominal Energy Storage Capacity	169 kWh	237 kWh
Dimensions (L x W x H)	2300 x 1150 x 2128 mm	
Weight	2900 kg	3250 kg
Operating Temperature Range	-20 °C ~ +50 °C	
Certifications	IEC, UN, EN, CE	
Ingress Protection	IP54	
Transport Features	Central Lifting Point, Forklift Pockets	
Warranty	5 Year Battery Warranty	

BATTERY	P150	M150
Cell Type	LFP ($LiFePO_4$) BYD	LFP ($LiFePO_4$) CATL
Usable Pack Capacity	152.75 kWh (90% DOD)	237 kWh (100% DOD)
Expected Lifetime	> 10 years	
Low Maintenance	Instant full capacity power	

POWER CONVERSION SYSTEM (PCS)	P150	M150
Rated Current (AC)	236 A @ 415V	208 A @ 415V
Rated Output Power	170 kW	237 kW
Rated AC Voltage	415 Vac @ 50Hz 3 Phase	415 Vac (Multi-voltage configurable) @ 50Hz 3 Phase
Output options	Bottom / Side cable entry with quick-connect ports	
AC Connection	3W + N + PE	
System Efficiency	Up to 91.7%	
Remote Management and Communication	Modbus-TCP / MQTT / CAN protocols - open API's for integration with your asset management platform	

THERMAL MANAGEMENT	P150	M150
Operation Mode	Liquid cooling system	
Fire Protection Type	Aerosol Fire Suppression	

COMPATIBILITY	P150	M150
Solar Integration	30kW DC MPPT controller	
Genset Compatibility	4 Hour Recharge with 88kVA Generator	4 Hour Recharge with 100kVA Generator
Power Grid	Grid Charging / Paralleling	
Power Supply	Socket Outlets & Cable Entry quick-connect ports	

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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