



# P150 and M150

## Energy Pack

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

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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.

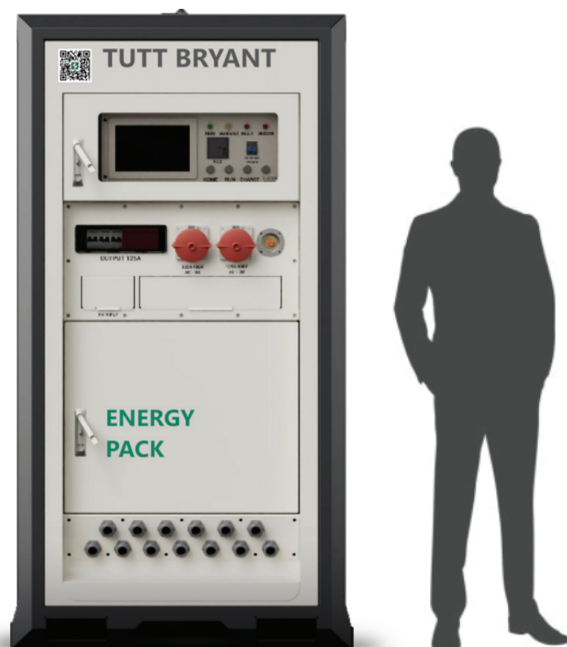
Maximise your renewable potential and experience the value of uninterrupted power! And contact our Tutt Bryant Power team to talk about your project

### 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 <sub>4</sub> ) BYD | LFP (LiFePO <sub>4</sub> ) 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)<br>@ 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<br>88kVA Generator          | 4 Hour Recharge with<br>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  
03 9554 0380

**1300 658 888**

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