TOTAL ENERGY STORAGE
NATIONWIDE 1800 064 766

EnergyPack P500

500kVA/564kWh

Battery Energy Storage System

Modular Energy Solution

Site Offices/Remote Mining Camps:
Provides a reliable and stable power supply in remote and harsh environments. Reduces diesel generator running time by up to 80%, cutting down fuel costs and emissions.

Off-Grid Residential Communities:
Supplies consistent power to buildings in off-grid or remote areas. Integrates with renewable energy sources such as solar panels to provide a sustainable energy solution.

Remote Pumping Sites:
Integrates with solar renewable energy sources and backup generators, providing reliable and sustainable power to guarantee uninterrupted water pumping. Reduces reliances on diesel generators, leading to significant savings on fuel and operational expenses over time.

Events:
Provides a quiet reliable solution for events.
Silent in operation, providing zero carbon emission and zero noise and a safer working environment for events.

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Battery Energy Storage

Overview

The EnergyPack P500 is a versatile battery energy storage system designed to integrate seamlessly with generators, photovoltaic (PV) systems, and other clean energy sources. It significantly reduces fuel usage and serves as central controller for efficient energy distribution, ensuring reliable and sustainable power supply.

Key Features

Quick Deployment:
Modular design with plug-and-play capabilities, ensuring easy setup and quick deployment suitable for various scenarios.

Intelligent Energy Management:
Optimises energy usage by intelligently controlling battery charging and discharging, as well as the starting and stopping of the generator, based on predetermined time settings, availability of renewable energy, and battery capacity.

Remote Monitoring and Management:
Optimises energy usage by intelligently controlling battery charging and discharging, as well as the starting and stopping of the generator, based on predetermined time settings, availability of renewable energy, and battery capacity.

Renewable Energy Integration:
Seamlessly integrates with solar renewable energy sources, storing excess renewable energy for use during low production demand.

Consistent Power Supply:
564kWh large-capacity storage for efficient energy utilisation, providing continuous and stable power supply in off-grid environments, ensuring uninterrupted power.

Outstanding Safety:
Utilises high-safety LiFePO4 batteries with multiple protection mechanisms, integrated cooling system and CE certification, ensuring safe operations.

Technical Specifications

PERFORMANCE	
Nominated rated power	500kVA
Over load power (60s)	625kVA

ENVIRONMENTAL	
Protection class	IP54
Corrosion protection	C3 (C5M)
Operating temperature	-20 to +50°C
Humidity	0-95% (no condensation)
Maximum operating altitude	3000m
Sound power level	<50 dB(A) @1m

MECHANICAL	
Dimensions LxWxH (mm)	2950x2300x2500
Weight (kg)	7200

ELECTRICAL	
Rated Voltage	415VAC
Frequency	50(60)Hz
Power factor range	0 IND. ...1 ...0 cap
Nominal AC current	696A
Max AC current (60s)	870A

BATTERY	
Cell chemistry	LiFePO4
Nominal capacity	564kWh
Effective capacity	507kWh
Recharging time	1.8 Hours @ 100kW
Discharging time	1.8 Hours @ 100kW
DoD% (depth of discharge)	90%
Lifetime (80% DoD)	7000 Cycles
Temperature control	Liquid cooling / PI heating film

For more information, please contact us at:
Web: www.totalenergystorage.com.au | Phone: 1800 064 766
Information is accurate at time of publication.