



PORTAVOLT
NZ

PowerGiant 3600

High-Performance Industrial
Mobile Power Station



PowerGiant 3600 High-Performance Industrial Mobile Power Station

The PowerGiant 3600 is a next-generation High-Performance Industrial Mobile Power Station featuring 230VAC input/output, a high-capacity rated energy storage of 2304Wh, and a peak power output of 20000W. With a lightweight design and IP54-rated protection against dust and moisture, It is built to withstand New Zealand's demanding environments. The product supports remote monitoring via a dedicated app, Bluetooth connectivity, and Remote Firmware Upgrade, while integrating multi-protection systems and air-cooled thermal management. Boasting over 97% efficiency and a 2.3-hour recharge time, it is ideal for construction sites, outdoor activities, agricultural equipment, and industrial applications, delivering reliable power wherever needed.

Fully Self-Developed, Setting a New Benchmark in High-Performance Industrial Mobile Power Stations

Advanced Power Electronics Technology

Equipped with the latest self-developed power chips

Intelligent Interaction

Integrated with the Intelligent App

Firmware Upgrade

Bluetooth Transmission with Intelligent O&M

Modular Metal Structure Design

Robust drop protection

User-centric Design

Portable and easy to operate

High Protection Rating

Unaffected by dust or moisture



UN38.3

RoHS

REACH



3600W

Rated Power



20000W

Peak Power



2.3h

Charging Time



>97%

Efficiency



2.3kWh

Rated Capacity



IP54

High Protection Level

High-Power, Intelligent, and System-Level Safe Portable Power Solutions

System-Level Safety Guarantee

- Multiple Safety Protections: Built-in overcharge, high-temperature, low-temperature, short-circuit, and electrostatic discharge protections.
- Remote Firmware Upgrade: Based on Bluetooth transmission, synchronise the latest strategies and continuously optimise performance.
- Intelligent Balancing Management: Real-time monitoring of each battery cell's working status, automatic balancing strategy ensures stable cell performance and extends service life.
- Efficient Heat Dissipation System: Built-in air cooling effectively controls battery temperature, enhancing safety and reliability.
- Silent Operation: Operating sound is **less than 30dB**.

User-Friendly Design

- Multi-Support Point Design: Upright placement saves space, flat placement is stable and reliable, adapting to various usage scenarios.
- Portability: Weight is **24kg**, ergonomic design allows easy one-handed carrying.
- High Protection Level: **IP54 rated**, effectively protecting against dust and moisture, suitable for diverse and complex environments.
- Smart Interaction: Supports App remote configuration of charging parameters, real-time monitoring of power, charge/discharge power, etc., with simple and intuitive operation.
- Status Visualisation: LED indicator clearly displays remaining power and working status at a glance.

Applications





High-Power Performance

- **Powerful Output:** Continuous output power up to **3600W**, peak power up to **20000W**, easily handling high-load demands.
- **Fast Charging:** Maximum continuous input power of **1200W**, charging time less than **2.3 hours**, efficient energy recovery.
- **High Efficiency:** Maximum overall efficiency reaches **97%**, reducing energy loss and providing longer battery life.

Intelligent & Safe Operation

- **Certified to AS/NZS Standards:** Fully tested and compliant with AS/NZS 62368-1:2022 safety specifications, providing industrial-grade electrical safety you can rely on for Kiwi worksites.
- **Intelligent Interaction:** **Intelligent App** provides real-time monitoring of product operating status.



Technical Parameters

PowerGiant 3600 High-Performance Industrial Mobile Power Station

Basic Parameters	
Product Name	PG3600
Product Model	PHS3600P
Net Weight	24kg
Dimension((WxHxD))	526*485*211mm
Capacity	2304Wh
Protection Rating	IP54
Cooling Method	Natural Cooling
Operating Altitude	2000 meters
Indicator	10 - level battery level indicator
Standards	IEC 62619, UN 38.3, IEC 62477, IEC61000, AS/NZS 62368-1:2022
Output Specification	
Rated Output Voltage	230V, Pure sine wave
Rated Output Voltage Range	230±5Vac
Rated output frequency	50Hz
Rated Output Power	3,600W
150% Overload	4000W~5400W, >500s
200% Overload	5400W~7200W, >50s
250% Overload	7200W~9000W, >10s
Other Overload	>9000W, >1s
Peak Power	20000W
Output Peak Current	140A (Max. Instantaneous Value)
No - load Power Consumption	≤30W
Input Specification	
Rated Input Voltage	230Vac
Rated Input Voltage Range	176~264 Vac
Input frequency range	45~65Hz
Max. Input Power	1200W
Rated Input Current	6A (Max. Input Current 8A)
Operating Temperature	
Operating Temperature	Charge at 5 to 40°C, Discharge at -15°C to 55°C
Storage Temperature	-20°C to 60°C (1 month); -20°C to 45°C (3 months)
Operating Humidity	10~90% RH
Storage Humidity	5~95% RH

»» Applications



»» Load Operation

Unleash 20,000W peak power, backed by 3,600W sustained output. Your most reliable partner for intense tasks and demanding conditions.



3kW Arc Welder

230 V, Ø2.5 mm electrodes:
45-55 welds
230 V, Ø3.2 mm electrodes:
35-45 welds



3.2kW Core Drill

Up to **11 holes**
(Ø150 mm × depth 150 mm)



1.4kW Drill

230 V, up to **243 holes**
(Ø35 mm × depth 10 mm)



2.7kW Cutting Saw

Up to **41 cuts** on
Ø110 mm cast-iron pipes



2.2kW Demolition Hammer

Breaks up to **8.2 tons** of
concrete slabs



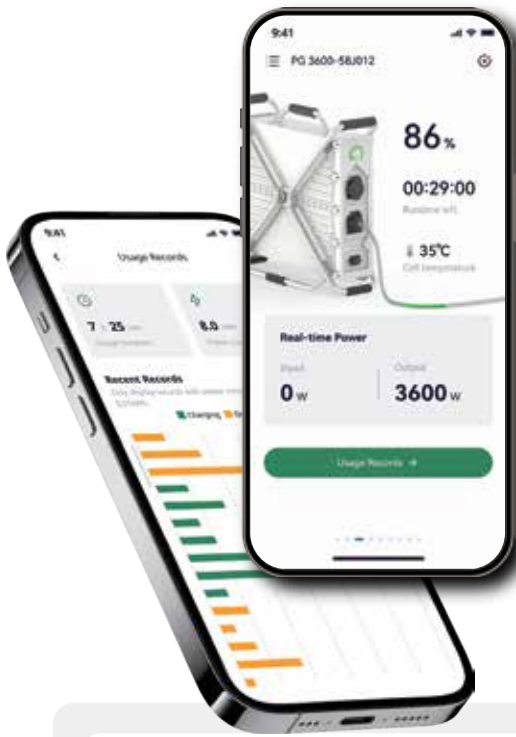
Industrial Vacuum Cleaner

Suction capacity:
8,500 liters



2.3kW Pump

Maximum delivery: **50,000 liters**
(Flow rate: 780 L/min;
Operating time: 64 minutes)



»»» Digital Intelligent Monitoring App

Exclusively crafted for mobile power stations: an app with smart monitoring functionality. By connecting the stations via bluetooth, data management and parameter setting for mobile power stations can be achieved.

Real-time Status Monitoring

Collect and display real-time operating data such as input and output power, temperature, and electric quantity.



Data Dashboard

Get 100 historical charging/discharging records.

Fault Alerts

Instant notifications for device abnormalities, push warning information including fault types and solutions.



Remote Settings

Support remote adjustment of charging power and other parameters to achieve non-contact management.

PowerGiant 3600

Power on your terms.



PORTAVOLT NZ