

# P-GRID



The P-Grid is a compact, 2-in-1 hybrid power system that integrates a Stage V diesel generator with a high-capacity lead-carbon battery pack. It's engineered specifically for heavy-duty, temporary power demands such as construction, infrastructure, utilities and remote industrial sites. Designed for peak shaving and continuous operation, the P-Grid delivers stable, efficient and low-emission power while significantly reducing reliance on diesel.

With intelligent load management, multiple external grid connection options, and remote monitoring, the P-Grid ensures optimised energy use and reduced operational costs. Its rugged build, long battery lifespan and low-maintenance design make it a dependable choice for sites aiming to improve sustainability, cut fuel consumption and ensure uninterrupted power delivery.



Modular design



Hybrid efficiency



Reduced operational costs



Battery safety & longevity



Master power peaks



Works on-grid or off-grid



	Max average	Max kWh/day	Battery only (max. 15s)	Battery + internal generator (max. 15s)
<b>Stand alone</b>	20kWh	480kWh	180kVA	200kVA
<b>16A external connection</b>	30kWh	720kWh	200kVA	220kVA
<b>32A external connection</b>	40kWh	960kWh	220kVA	240kVA
<b>63A external connection</b>	60kWh	1440kWh	240kVA	240kVA

## Scalable & Flexible Configuration

Supports 16A, 32A and 63A connections and can run in parallel with multiple units. Whether powering a small site or a multi-crane development, the P-Grid adapts to the required capacity.

## Remote Monitoring & Reduced Maintenance

Built-in telemetry provides real-time status, alerts and usage data, enabling proactive maintenance. Lead-carbon AGM batteries offer long service life with lower maintenance requirements compared to lithium alternatives.

## Ideal Applications

- Construction sites
- Rental
- Back-up
- Residential area
- Core of a microgrid
- Events

## Specification:

Inverter	Battery	Genset
AC IN: 400V - 50Hz - 63A CE plug 5P M	34 batteries x 12V	38 kVA
Genset - Grid (Dynamic Load Control)	Technology: AGM LeadCarbon	Stage V - Yanmar
DC 400V technology	2C peak discharge	309L diesel tank
AC OUT: 160kVA Pnom	0,3C charge	<b>Weight</b>
3-phase industrial inverters	Temperature range: -20°C to 50°C	4,980 kg
Pure sine wave inverter	<b>Container Unit</b>	
8 Inverters: Hercules CE+T	Dimensions (L x W x H): 233 x 212.5 x 226.5cm	