

YORPOWER

Hybrid Power Pack

The YorPower Hybrid Power Pack is a compact unit that efficiently stores electricity and provides it to any application or equipment that the user requires. The Power Pack is charged by any combination of available power source:

- Mains power
- Diesel generator
- Hydro-electric turbine
- Solar panel
- Wind turbine

As a generator manufacturer YorPower focuses on two key areas with the lowest capital investment if mains power is not available or is unreliable:

- A simple, flexible, turnkey solution using a suitably sized Diesel Generator
- A Hybrid Power Pack, typically providing a reduction in fuel consumption of between 30% and 50% for 40 hours use per week

The Hybrid Power Pack provides benefits in many situations but really comes into its own when used in conjunction with a generator where short periods of high load and prolonged periods of low load are encountered. Just using a Diesel Generator in this situation wastes valuable power and fuel

Common uses include:

- Telecoms sites (off the mains grid)
- Remote locations (eg farms) where mains power is not available
- Telecoms sites (backup power in case of mains failure)
- Rural mini-grids
- Network expansion to rural areas
- Military and emergency relief applications
- Mining
- Exhibitions and events
- Rental
- Apartment buildings
- Remote houses
- Construction sites
- Prefabricated buildings and mobile camps
- Agricultural applications

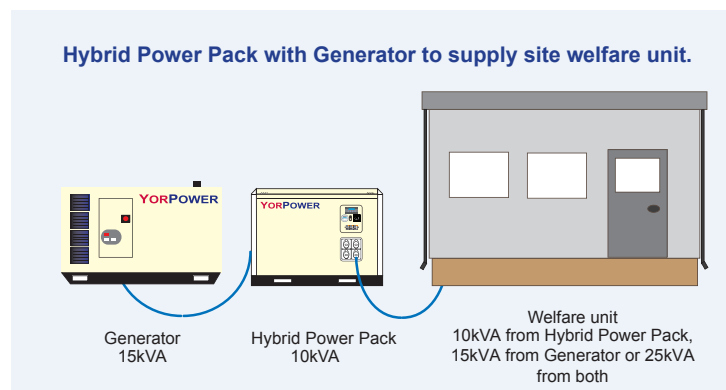


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Hybrid Power Pack - Frequently Asked Questions

How Does the Hybrid System Work?

- **Normal Load**
The Hybrid unit provides power, silently and without emissions
- **Average Load / Recharge**
The control system switches on the Diesel Generator to provide power whilst also recharging the Hybrid Power Pack
- **Peak Load**
The Diesel Generator and the Hybrid Power Pack work together to supply peak load. This arrangement means the Diesel Generator does not have to be sized to cope with peak demand and allows use of a smaller unit
- **Stand Alone**
The Hybrid Power Pack can also work as an independent stand alone unit for up to 48 hours using mains power to recharge



What is the Payback Period and ROI?

- This depends on factors including system size and charging options but on a system running 24 hours a day on a diesel generator alone payback could be seen within six months

What Level of Maintenance is Required for the System?

- As the diesel generator runs less frequently fewer maintenance visits will be needed and as the Hybrid Power Pack is designed for minimal maintenance no additional visits will be required

What are the Benefits?

- Reduced fuel consumption - typically between 30% and 50% lower
- Reduced CO2 emissions - significantly reduced environmental impact
- Extended generator life
- Reduced generator maintenance costs
- Provides silent power (subject to load)
- Provides additional power for peak demand
- Allows use of a smaller generator
- Instant switch over - no time lag to start the generator motor
- No load step issues - 100% of power on demand