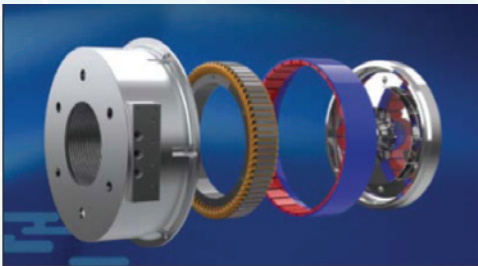
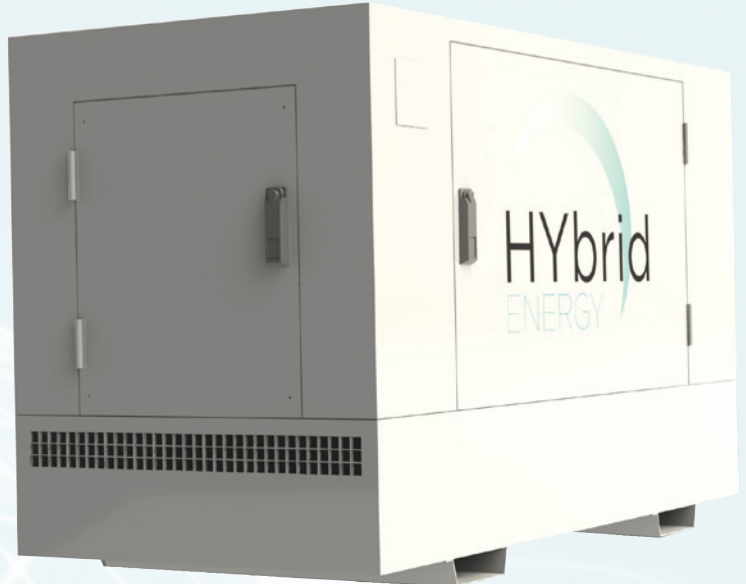


Application:

- Site loads up to 400 A (@48 V DC)
- DC HYbrid system
- Upgrade AC hybrid system
- Stand-alone power supply

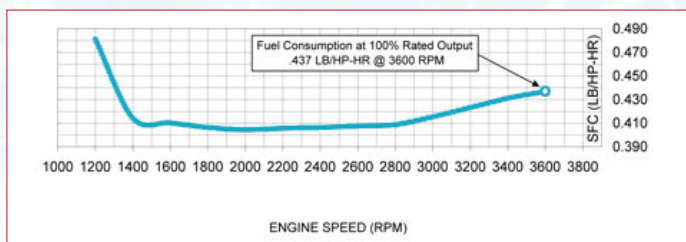
High Security Enclosure:

- 1900mm x 900mm x 1120mm (L x W x H)
- Steel panels
- Powder coat finish
- Engine compartment:
 - 2 doors
 - Forced ventilation
 - Acoustic insulation 70 dB @ 1m
 - Optional bunded fuel tank
- Controls compartment
- Fork lift pockets



Alternator:

- Permanent magnet type
- Operating speed 2,200 – 2,800 RPM
- Rated power up to 20kW*
- Thermal protection
- Overcurrent protection
- Overspeed protection
- Simple construction;
 - 1 moving part, no bearings or sliding contacts



Engine:

- Isuzu 3CA1
- EPA Tier3, Tier 4 interim compliant
- 4 stroke compression ignition
- Diesel fuel
- 3 cylinder in-line, OHV
- Liquid cooled
- 0.9 litre displacement
- Low fuel consumption, over wide range of speeds

Or:

- Isuzu 4LE1*
- EPA Tier3, Tier 4 interim compliant
- 4 stroke compression ignition
- Diesel fuel
- 4 cylinder in-line, OHV
- Liquid cooled
- 2.2 litre displacement
- Low fuel consumption

*Indicates optional equipment



HYbrid Gen Set

System	Feature	Benefit
Fuel	Optional fuel tank available	• Up to 3 months between refuelling
	Fuel purifier	• Removes large particles and water from the fuel supply before it enters the engine fuel system.
	Secondary Racor turbine filter*	• Increases fuel filter life where there is heavy fuel contamination
	Water in fuel sensor*	• Shuts down engine safely if fuel is contaminated with water
	Lockable filler cap	• Reduces fuel theft
Lube oil	Bypass oil filter with evaporation chamber	<ul style="list-style-type: none"> • Removes contaminants and acidic by-products of combustion • Increases oil life • Service interval up to 1,000 hours
Electrical System	400 A rating Inverter	<ul style="list-style-type: none"> • Peak loads of 400 A possible • Site legacy AC loads can be supplied as well as DC
	Solar Array*	• Increase fuel efficiency by using solar energy to charge the battery pack and power the site load during the day
Alternator	400 A rating*	• Max continuous DC load possible, 400 A
	PMG	<ul style="list-style-type: none"> • Robust, simple and reliable • High efficiency
Enclosure	All steel construction	• Secure and vandal resistant
	Forklift pockets	• Easy to handle
	High quality paint finish	• Life expectancy >15 years in tough environments
	Good access Lighting*	• Reduced maintenance cost
Controls	GPRS communication	<ul style="list-style-type: none"> • Web based remote monitoring • Remote fault diagnosis • Increased availability
	Flexible	• Configurable to client's requirements*
	Protection functions	• Monitors DC Genset performance and protects the equipment from damage in the case of a malfunction

Due to HYbrid Energy's policy of continuous improvement, these specifications are subject to change without notice.

Remote Monitoring:

- On-board GPRS modem
- Full remote control and monitoring
- SMS alerts
- Web based interface
- Historical data recording
- Alarm list and fault reset
- Fleet status at-a-glance



Control System:

- Microprocessor controlled
- Fully automatic, autonomous operation
- Remote monitoring, diagnosis and control
- Historical data trending
- Monitors and controls all major operating parameters of the HYbrid system
- Pure genset and DC HYbrid operating modes
- Battery temperature compensation
- Expandable to monitor clients equipment or relay signals to client's system*



*Indicates optional equipment

Focus Your Energy

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