

Mega Power. Smart Access.

Diesel Generator Set

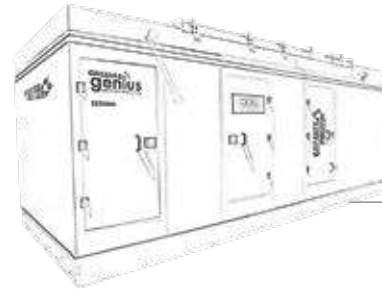
Specifications Sheet - GPW-1250 - 1250 kVA





Greaves Advantage

- Design compliant to IS 3046, IS 10000 & ISO 8528
- Greaves Power provides one-source responsibility for the generating system and accessories
- The generator set and its components are prototype-tested, factory-built and production tested
- 2 years / 5000 hours limited warranty covers all systems and components
- Compact design
- Fast response time
- Easy maintenance



Standard Features

Industrial diesel engine with 24-volt battery charging alternator

Single-bearing alternator

Inbuilt vibration isolators

Dry type air filter

Fuel filter multistage

Starting battery and battery cables

Digital controller

Operations and installation literature

Four point bottom lifting

Generator Specifications:

| | |
|---|-----------------|
| Genset manufacturer | Greaves Power |
| Genset rating | Prime Power |
| Genset output (kVA / kWe) | 1250 / 1000 |
| Genset model | GPW-1250 |
| Engine rating or max. power at rated RPM in kWm (BHP) | 1100 (1496) |
| Engine model | GPW - 1250 |
| Engine type | TCAC |
| No. of cylinders / cylinder arrangement | 12 / V-type |
| Displacement (L) | 39.2 |
| Bore & stroke (mm) | 150 x 185 |
| Compression ratio | 15:1 |
| Rated RPM | 1500 |
| Governor: type / DG performance class | Electronic / G3 |
| Frequency regulation, no load to full load | Isochronous |
| Over speed trip (RPM) | 1650 |
| Air cleaner type / qty | Dry / 02 |

Exhaust System:

| | |
|------------------------------------|---------|
| Manifold type | Dry |
| Diameter of exhaust outlet | mm 215 |
| No. of exhaust outlet | 2 |
| Max allowable system back pressure | kPa 7.5 |
| EGT after turbine | °C 550 |

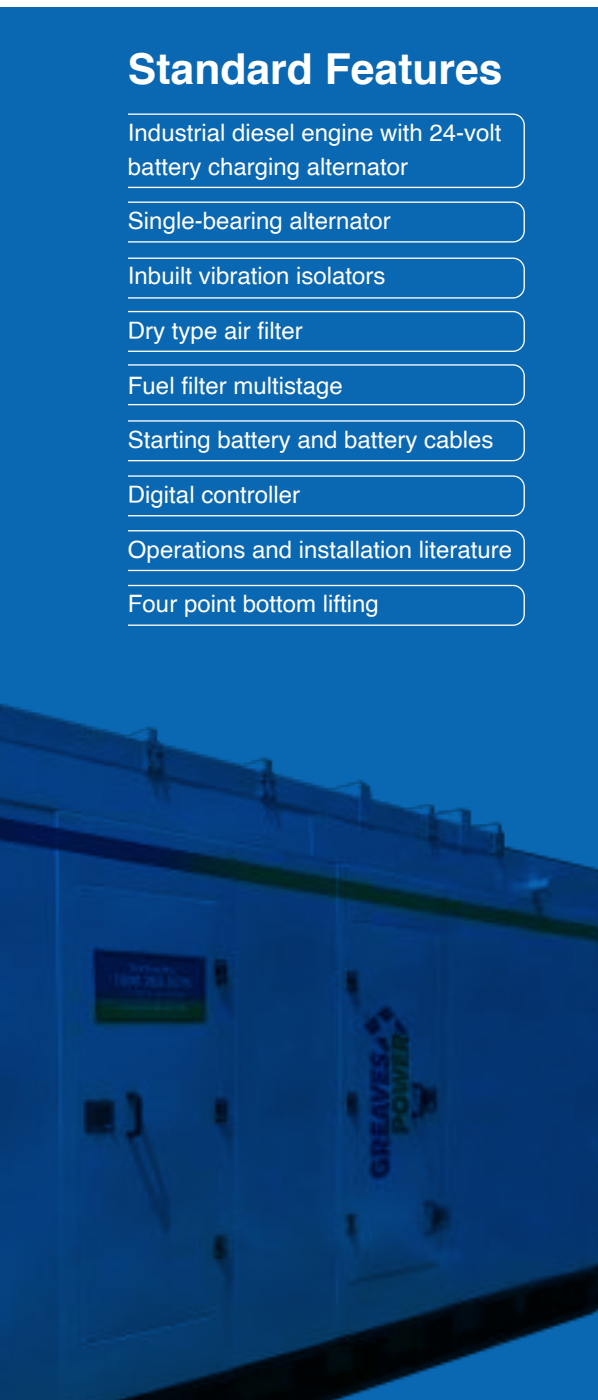
Engine Electrical System:

| | |
|--|-----------------|
| Charging alternator voltage / current (DC) | 24 V / 55 Amps |
| Starter motor rated voltage (DC) | 24 |
| Battery voltage (DC) / capacity (AH) | 24V, 2 x 200 AH |

Fuel System:

| | |
|--|-----|
| Recommended fuel | HSD |
| Fuel tank capacity (Ltr)* inside canopy | 990 |
| *Fuel consumption - LPH at % load | |
| 100% | 252 |
| 75% | 188 |
| 50% | 129 |

*Fuel consumption tolerance 5% & diesel density 0.835 kg/l



Diesel Generator Set

Specifications Sheet - GPW-1010 - 1010 kVA

| Lubricating Oil System: | |
|--|---------------------------------|
| Lube oil sump capacity (Ltrs) | 155 |
| Oil change period (Hrs) | 500 |
| Oil consumption (% of SFC) | 0.15 |
| Oil filter quantity (Nos / Type) | 06 / spin on type |
| Recommended oil grade | 15 W40 Greaves maxtherm API CI4 |
| Oil cooler | Water cooled |
| Cooling System: | |
| Cooling system is designed for max ambient temp. Deg. C. at rated load | 50 |
| Radiator system capacity, including engine (L) | 250 |
| Water pump type | Centrifugal V type belt driven |
| Alternator Specifications: | |
| Standard make | Leroy - Somer |
| Voltage | 380 - 440V |
| Frequency | 50Hz |
| Current at 0.8 PF (Amps) | 1740 |
| Type | 4 Pole, rotating field |
| Exciter type | Brushless (AREP) |
| Voltage regulator | AVR |
| Insulation | Class 'H' |
| Temperature rise | 125°C (Class 'H') |
| Coupling | Flexible disc closed coupled |
| Voltage regulation: no load to full load | +/-0.5% |
| One step load acceptable | 100% of rating |
| Unbalance load capability | 25% of rated current |



Standard Scope of Supply:

Engine

Comes with direct injection, water cooled, 12 - cylinder, V-type, 4 - stroke, rated at 1500 RPM, conforming to ISO 3046/BS 5514. Specifications as follows:

- Mechanical FIP
- Electronic Governor
- Turbo charger, pulse tuned exhaust manifold, stainless steel exhaust flexible connection
- Radiator cooled with charged air cooler
- Plate type lube oil cooler
- Filter - Fuel, Lube oil
- Dry type replaceable paper element air cleaner
- Fly wheel housing and fly wheel to suit single bearing alternator
- Starter motor - Electric battery charging alternator
- First fill lube and coolant

Alternator [LS / STAMFORD / CG]

- Brushless alternator
- Self-excited, self-regulated
- Salient pole evolving field
- Self Ventilated
- Solid State

Instrument Panel

- RAL 9003 White powder coated control panel manufactured with CRCA sheet
- Controller is suitable to display voltage, current, kWe, Frequency, kWh
- Indicating lamps for "Load on" and "Set Running"

Literature

- Operations manual
- General maintenance & installation guidelines
- Foundation drawing
- Parts manual

Acoustic Enclosed Unit (CAPON TYPE)

- Engine alternator assembly mounted on AVM with silencer & SS exhaust bellow
- Base rail with draw-out type fuel tank is provided with a drain plug, air vent
- Inlet and outlet connections, level indicator etc.
- Stand alone Day Tank provision with 990 litre capacity
- 24V dry batteries with connecting leads and terminals
- 90% gloss RAL 9003 white pure polyester powder coated, base in black colour

Generator Controller (DSE 7320 MKII)

| Controller Type |
|--|
| DSE 7320 MKII for genset controller |
| Features |
| Compact and microprocessor based fully configurable control unit |
| 4 line LCD display |
| The unique integrated DG set controller |
| Incorporate both engine & alternator parameter in one console |
| Fully configurable digital output |
| All parameters are settable and password protected |
| AMF ready |
| Remote start |
| Shutdown with Audio Visual Annunciation |
| Low oil pressure |
| High coolant temperature |
| Engine over speed |
| Engine under speed |
| High canopy temperature |
| Low fuel level |
| Under voltage |
| Over voltage |
| Over frequency |
| Under frequency |
| Low coolant level |
| High canopy temperature |



| Audio Visual Warning |
|--------------------------------|
| Low oil pressure |
| High coolant temperature |
| Low battery voltage |
| Low fuel level |
| Display Parameters |
| Engine oil pressure |
| Coolant temperature |
| Battery voltage |
| Engine RPM |
| DG set running hours |
| Generator - volts |
| Phase |
| Neutral & phase |
| Phase generator current (Amps) |
| Power factor |
| kWh |
| kW |

Optional Items

Electrical Systems

Alternator Space Heater / Copper Bus Bar / Earth Fault Relay / kWh meter / RTD / BTM Temperature Scanner

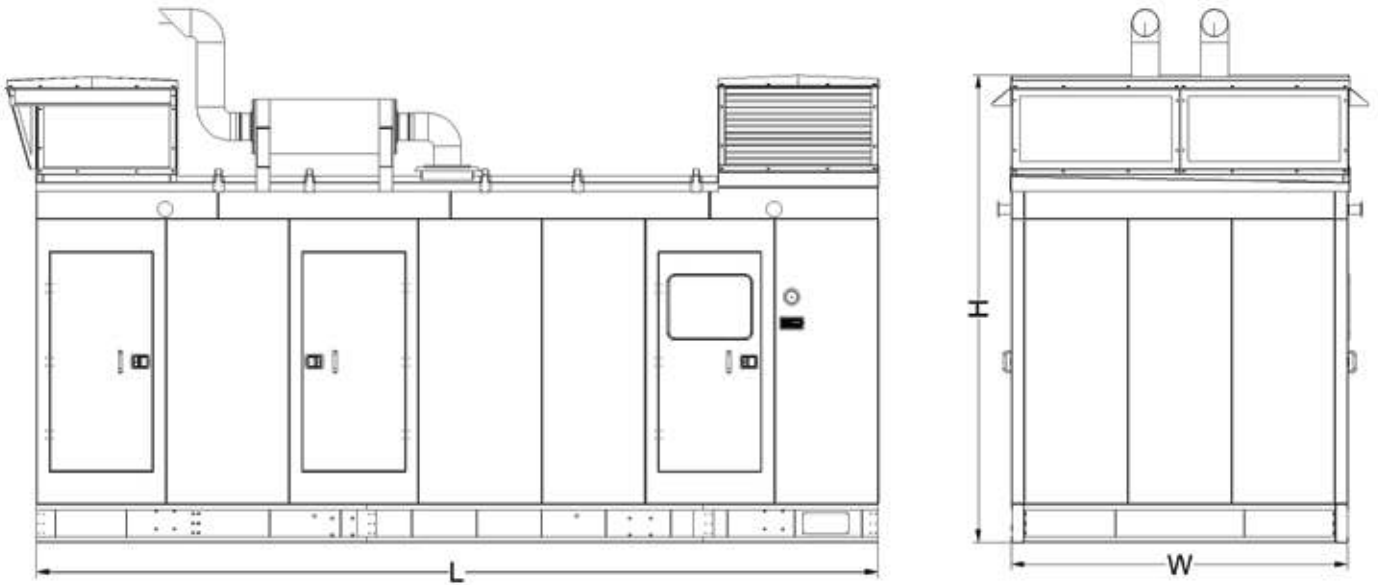
Synchronizing Controller

Deep-Sea / DIEF

Open Unit (For Export)

Contact Greaves Team for more details

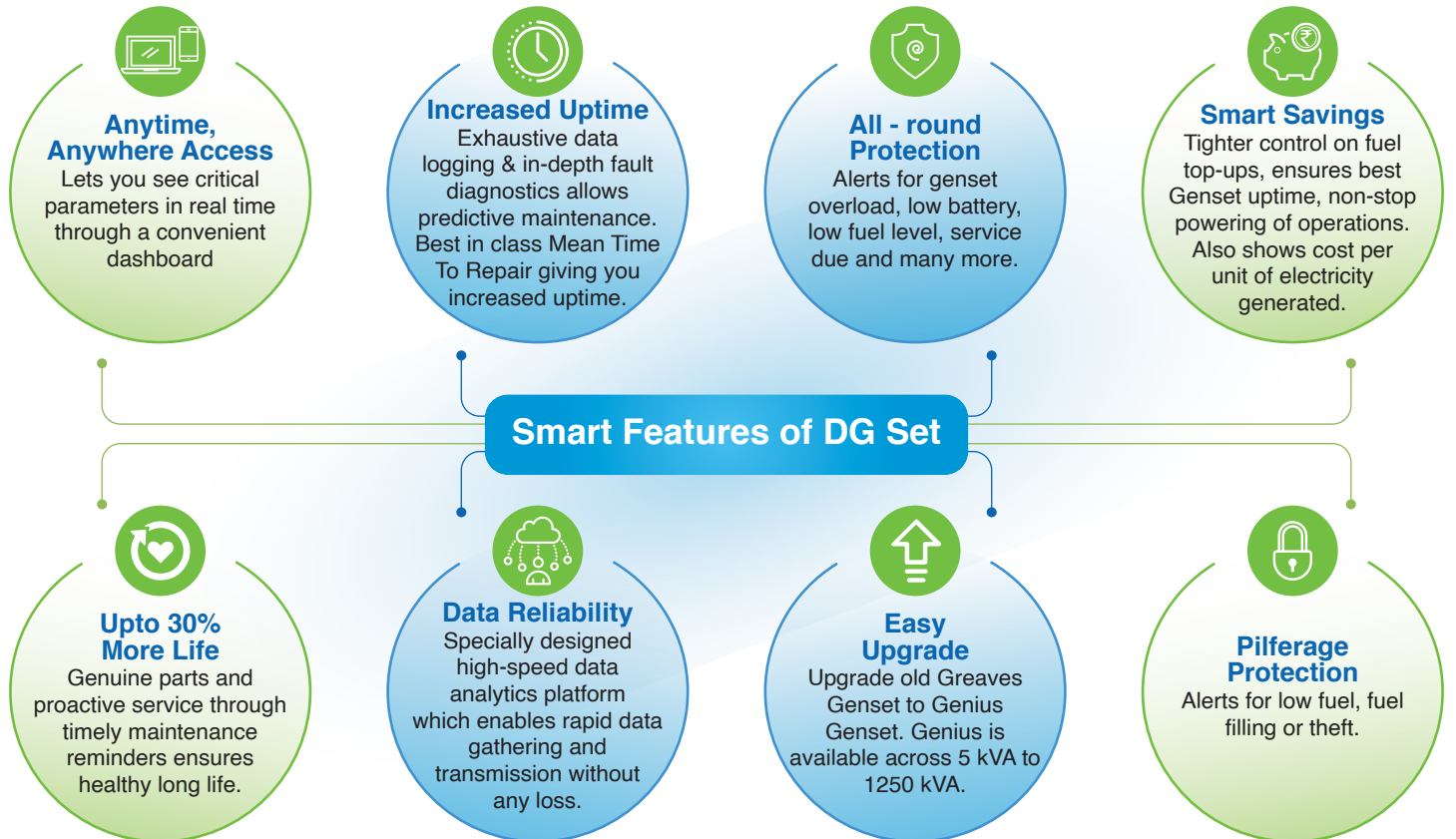




Set with Enclosure Dimensions & Weight

| Model | Rating | L (mm) | W (mm) | H (mm) | Dry Weight (kg) |
|------------|--------|--------|--------|--------|-----------------|
| GPW - 1250 | 1250 | 6500 | 2810* | 3613* | 10500 |

*Width including lifting hook. *Height upto silencer only.



Remote Monitoring System (RMS) Features

- Separate microcontroller
- Onboard memory with SD card
- Input and output for easy integration
- Battery backup
- RS 485 port
- Dual SIM support
- Surge and reverse power protection
- Wall and DIN mounting
- 3 LED indicator for GPS, GSM and data capture
- Secure by design and predefined access control
- Temper proof design
- Dynamic data collection
- Multi-protocol and controller support
- Cross-platform compatibility
- Real-time clock
- External GSM and GPRS antenna support
- Rapid data gathering



Powering Prestigious Client Projects



PRELIMINARY

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited.

A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1 and BS 5514. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-10) on ratings guidelines for the complete ratings definitions.

Greaves Cotton - A Legacy of Excellence

- India's leading diversified engineering company with over 160 years of rich legacy
- Core competencies: Generator Sets, Pump Sets, Diesel/Petrol Engines and Farm Equipments
- Manufacturing 5 lakh engines annually
- Strong team of more than 300 R&D professionals
- Significant strengths: Technology, Value, Reach
- Extensive marketing and service network: Over 1200 sales & services centres across India
- Global footprint with local presence in SAARC, Africa and Middle-East



Non-stop Power



Driving Business



Enhancing Productivity



Engines of Growth

Power Generation Business

- Over 5 decades of experience in generator sets. 1 Lakh+ Gensets population in operation.
- New Genset manufacturing facility at Pune with annual capacity of more than 10000 Gensets
- Fuel-efficient, rugged and reliable
- Total solutions by single point of contact for engineering design, sales, service & spare parts
- ARAI approved testing facility equipped with sophisticated equipment is among the best in the industry and can test engines up to 2 MW
- State-of-the-art manufacturing facilities at Pune for multi-cylinder / higher HP engines and Gensets



Powering Missions



Supporting Large Infrastructure Projects

Esteemed Clientele



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Auxiliary Power Business

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ISO 9001:2008 certified by



ISO 14001:2004 certified by



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Greaves Channel Partner

With continuous improvement in product design, product specification and data are subject to change without any prior intimation.

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