

THE SMART POWER IS HERE!



Powered by D-Series engines

160 kVA to 500 kVA

- Compact size
- User friendly controls
- Comprehensive sales and service under one roof
- Aesthetically designed canopy

GREAVES
POWER
NEW GENERATION POWER SOLUTIONS

D Series Engine Features and Benefits

- Individual cylinder head design. Ease of maintenance and minimal parts consumption during overhauls.
- Modular 60 deg VEE design ensures compactness.
- Electronic governor as standard fitment for DG set ratings 250 kVA & above. Mechanical governor back up provided for additional reliability.
- Wet liner construction across the range. On-site major repairs possible. Increases DG set availability and uptime.
- Environment friendly. Complies with CPCB norms for mass emission.
- Extended Oil change interval of 500 hours.
- Lower BMEP compared to other engines in the market. Reduced thermal loading & higher Block-loading capability.

Greaves D series DG sets — State-of-the-art Acoustic Enclosures

- Most compact acoustic enclosures. Best-in-class in India. Have the smallest foot print and space envelope. Their low height make installation in low-headroom situations an easy task. Saves space, a very precious resource in an increasingly crowded world.
- Top-lift capability and suitable for fork lift handling.
- Liberally designed doors with easy access for maintenance.
- Easy access to radiator for maintenance and wide cable entry provision.
- Toughened glass inspection window for clear view of control panel.
- Green Passivated / Die-cast aluminium fasteners and hardware for trouble-free operation.
- Fabricated out of 1.6 mm CRCA steel after 9 tank surface pre-treatment and pure polyester powder coating in a fully automated process with CNC / Laser machines.
- Excellent UV resistance. High retention of surface finish in outdoor installations and corrosive environments.
- Acoustic insulation with foam material conforming to IS 8183.
- Water and lube oil drain outlets located on the outer surface – Leading to ease of maintenance and cleanliness.
- Lowest vibrations – Better than 30 microns. Most suitable for roof-top installations.



Integrated DG set controller (EMS 927)

The unique Integrated DG set controller (EMS 927) incorporates both engine and alternator parameters in one console. This micro-processor based controller provides the most exhaustive display of critical engines and alternator performance parameters with alarm and safety features.



EMS 927 Integral DG set Controller

Display Parameters	Audio-Visual warning	Shut-down with Audio-Visual annunciation
Engine Oil pressure	Low Oil pressure	Low Oil pressure
Coolant temperature	High Coolant temperature	High Coolant temperature
Canopy temperature	high oil temperature	High Oil temperature
Oil Temperature	Low Battery Voltage	Engine over speed
Fuel level indication in % in Ltrs & Remaining run Hours	High Battery Voltage	Engine under speed
	Charging altr. failure	Low Coolant level in radiator
Battery Voltage	Low fuel level	Under Voltage
Battery cranking Voltage		Over Voltage
Engine rpm		Over frequency
DG set hours run		Under frequency
Gen. Volts (phase-neutral and phase-phase)		Emergency OFF
Gen. Current (Amps.)		
Power factor		
kWhr.		
kW		

Scope of Supply :

The RTU DG set is supplied with the following standard accessories

- Inbuilt control panel with complete internal wiring/cabling
- Residential silencer - mounted with complete exhaust piping
- 12V / 24 V battery
- Inbuilt fuel tank

Optionals :

- Electronic Governor in lieu of Mech. Governor
- AMF Control Panel with Auto Change - over feature
- Cold Starting Aid
- Trailer / Trolley mounted Mobile sets.
- Remote Radiator

The controller has data logging facility for the latest 50 faults recorded and option for RS232 / RS485 connectivity for remote monitoring / BMS integration.

Greaves Power 50 Hz DG set Technical Information

Genset

Model	GPW160	GPW180	GPW200	GPW250	GPW320	GPW400	GPW500
Power Rating (kVA/kW)	160/128	180/144	200/160	250/200	320/256	400/320	500/400
No. of Phases	3	3	3	3	3	3	3
Power Factor	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max. load current @ 0.8 PF (Amps)	222.6	250.4	278.2	347.8	445.2	556.5	695.6
Battery Rating	12 V , 1 X 150 H	24 V , 2 X 180 AH	24 V , 2 X 180 AH	24 V , 2 X 180 AH	24 V , 2 X 180 AH	24 V , 2 X 180 AH	24 V , 2 X 180 AH
Integral Fuel Tank Capacity (Ltrs)	400	400	400	420	990	990	990

Engine

Make	Greaves	Greaves	Greaves	Greaves	Greaves	Greaves	Greaves
Model	TBD2V6-MK-1	TBD3V6	TBD3V6-MK-1	TBD3V8	TBD2V12-MK-2	TBD3V12-MK-1	TBD4V12
Cooling	Water	Water	Water	Water	Water	Water	Water
Aspiration	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled
No. of Cylinders	6	6	6	8	12	12	12
RPM	1500	1500	1500	1500	1500	1500	1500
Compression Ratio	17	14.6	14.6	14.6	17	14.6	16
Bore x Stroke mm	120x130	128x130	128x130	128x130	120x130	128x130	132x140
Cubic Capacity	8.82	10.03	10.03	13.38	17.64	20.07	23
Power (HP)	197	230	253	313	396	484	604
Power kW	145	169	186	230	291	356	444
Governing	Mech. /A1	Mech. /A1	Mech. /A1	Electronic /A1	Electronic /A1	Electronic /A1	Electronic /A1
Starting System	12V ESE	24V ESE	24V ESE	24V ESE	24V ESE	24V ESE	24V ESE
Lube Oil Specification	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4
Lube Oil Sump capacity (ltr)	22.5	22.5	22.5	29	41	60	70

Alternator

Voltage	415	415	415	415	415	415	415
Frequency	50	50	50	50	50	50	50
Voltage Regulation (max.)	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Insulation	Class - H	Class - H	Class - H	Class - H	Class - H	Class - H	Class - H
Enclosure	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23

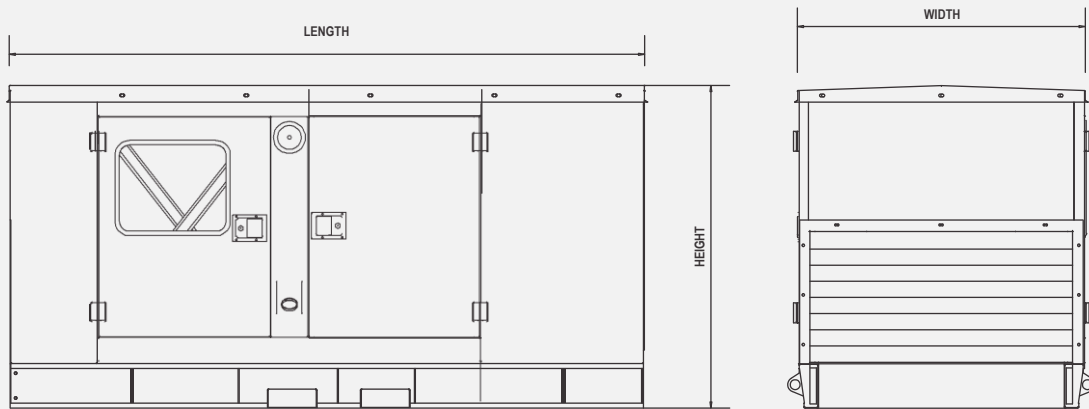
Genset Installation

Al. armoured cable (3.5 C, Sq. mm)	185 X 1	240 X 1	300 X 1	185 X 2	300 x 2	240 x 3	300 x 3
Exh. pipe Size (mm)	125 NB	125 NB	125 NB	125 NB	150 NB	150 NB	150 NB
Weight	3025	3340	3400	4050	5800	6200	6500
Dimensions in mm (L X W X H)	4000 X 1600 X 2050	4000 X 1600 X 2100	4000 X 1600 X 2100	4000 X 1800 X 2150	5750 X 2000 X 2500	5950 X 2000 X 2500	5600 X 2000 X 2250

The DG set Prime Power ratings mentioned above are in line with ISO 8528 with provision for 10% Overload
 Conformance standards : IS 4722, BS 5000 (For Alternator), BS 5514, ISO 3046 (For Engine) and ISO 8528 (For DG set)

DG set Dimensions (Including acoustic Enclosure)

Model	kVA	Length (mm)	Width (mm)	Height (mm) with Silencer
GPW160	160	4000	1600	2050
GPW180	180	4000	1600	2100
GPW200	200	4000	1600	2100
GPW250	250	4000	1800	2150
GPW320	320	5750	2000	2500
GPW400	400	5950	2000	2500
GPW500	500	5600	2000	2250



*Due to our continuous product improvement efforts, the specifications in this brochure are subject to change without prior notice.



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