



GREAVES
SINCE 1859

THE SMART **POWER** IS HERE!



**Powered by G-Series engines
25kVA to 125 kVA**

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

GREAVES®
POWER
NEW GENERATION POWER SOLUTIONS

G Series Engine Features and Benefits

- Very low basic engine noise level. Contributes to bettering the statutory MoEF stipulated noise level of 75 dB(A) for the DG set.
- Lowest exhaust emissions. Meets the next generation CPCB and US Tier-2 norms.
- Individual Cylinder head design. Savings on maintenance cost and time.
- Modular design. High degree of commonality of hardware and components over entire range.
- Easy accessibility of all maintenance parts.
- Deep skirted crank case design. High degree of rigidity and ruggedness.
- Higher reserve margins in the lube and cooling circuits – gives the benefit of increased wear life of the engine, extended period between overhauls and hassle-free operation especially at high ambient temperatures commonly seen across the Indian sub-continent. Operates efficiently at temperatures from -20° C to 50° C.
- Wet Liner construction eliminates time consuming and expensive block re-boring during overhauls.
- Gear drive for water pump improves the reliability of the cooling system.
- Easy fitment of electronic governor when required.

Greaves G 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 926)

The unique Integrated DG set controller (EMS 926) 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 with enhanced features for 125 kVA

EMS 926 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
Fuel level indication %	Low Battery Voltage	Engine over speed
Battery Voltage	High Battery Voltage	Engine under speed
Battery cranking Voltage	Charging altr. failure	Low Coolant level in radiator
Engine rpm	Low fuel level	Under Voltage
DG set hours run		Over Voltage
Gen. Volts (phase-neutral and phase-phase)		Over frequency
Gen. Current (Amps.)		Under frequency
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 88 AH 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.
- Single phase alternator in lieu of 3 phase

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

GreavesPower DG set Technical Information

Genset

Model	GPW25	GPW30	GPWT40	GPWT45	GPW50	GPW62.5	GPW75	GPW82.5	GPW100	GPW125
Power Rating kVA/kW	25/20	30/24	40/32	45/36	50/ 40	62.5/50	75/60	82.5/66	100/80	125/100
No.of Phases	3	3	3	3	3	3	3	3	3	3
Power Factor	0.8(lag)	0.8(lag)	0.8(lag)	0.8(lag)	0.8(lag)	0.8(lag)	0.8(lag)	0.8(lag)	0.8(lag)	0.8(lag)
Max. load current @ 0.8 PF (Amps)	35	42	56	63	70	87	104	115	139	173
Battery Rating	12V 88AH	12V 88AH	12V 88AH	12V 88AH	12V 88AH	12V 88AH	12V 88AH	12V 88AH	12V 88AH	12V 88AH
Integral Fuel Tank Capacity (Ltrs)	100	100	100	100	100	150	150	150	150	220

Engine

Make	Greaves	Greaves	Greaves	Greaves	Greaves	Greaves	Greaves	Greaves	Greaves	Greaves
Model	3G11NAG1	3G11NAG2	3G11TG1	3G11TG2	3G11TG3	4G11TG1	4G11TG2	4G11TAG1	4G11TAG2	4G11TAG3
Cooling	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Aspiration	Natural	Natural	Turbocharged	Turbocharged	Turbocharged	Turbocharged	Turbocharged	Turbocharged and Aftercooled	Turbocharged and Aftercooled	Turbocharged and Aftercooled
No. of Cylinders	3	3	3	3	3	4	4	4	4	4
RPM	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Compression Ratio	18	18	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
Bore x Stroke mm	105 x 130	105 x 130	105 x 130	105 x 130	105 x 130	105 x 130	105 x 130	105 x 130	105 x 130	105 x 130
Cubic Capacity (Ltrs)	3.4	3.4	3.4	3.4	3.4	4.5	4.5	4.5	4.5	4.5
Power (HP)	33	38	52	59	64	83	94	105	127	155
Governing	Mech. /A1	Mech. /A1	Mech. /A1	Mech. /A1	Mech. /A1	Mech. /A1	Mech. /A1	Mech. /A1	Mech. /A1	Mech. /A1
Starting System	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V 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	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4	Greaves Maxtherm API CF4
Lube Oil Sump capacity (Ltrs)	8	8	8	8	8	10	10	10	10	10

Alternator

Voltage	415 V	415 V	415 V	415 V	415 V	415 V	415 V	415 V	415 V	415 V
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Voltage Regulation (max.)	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/-1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Insulation	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Enclosure	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Excitation	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control	Brushless with AVR control

DG set Installation

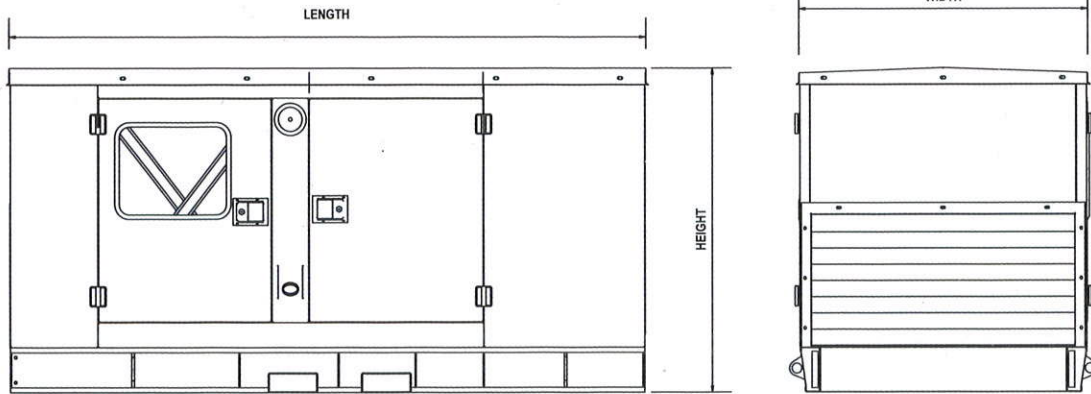
Al.armoured cable (3,5 C, Sq.mm)	25	25	35	50	50	70	95	95	120	150
Exh.pipe Size (mm)	75	75	100	75	75	100	100	100	100	125

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)

	kVA	Length (mm)	Width(mm)	Height (mm)
GPW 25	25	2190	1150	1380
GPW 30	30	2190	1150	1380
GPWT 40	40	2280	1150	1640
GPWT 45	45	2280	1150	1640
GPW 50	50	2280	1150	1640
GPW 62.5	62.5	2700	1150	1640
GPW 75	75	2700	1150	1640
GPW 82.5	82.5	3000	1150	1640
GPW 100	100	3000	1150	1640
GPW125	125	3500	1350	1750



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



Greaves Cotton Limited

Auxiliary Power Business

Chinchwad, Pune - 411 019. Tel.: 020 - 67308200 Fax : 020 - 27472276

E-mail : arvind.rishi@greavescotton.com Website : www.greavescotton.com

ISO 9001:2000
certified by



ISO 14001:2004
certified by



Corporate Office : Industry Manor, Appasaheb Marathe Marg,
Prabhadevi, Mumbai - 400 025.
Tel : (91-22) 24397575
Fax : (91-22) 24379555.

International Business : Sakhi House, Unit No.9, 1st Floor,
Corporate Park, Sion Trombay Road,
Chembur, Mumbai - 400 071.
Tel. : +91-22-25263800, 25263847,
Fax : +91-22-25263838.

