

RELIABLE. ECONOMICAL. TOTAL SOLUTION.



Diesel Generator Set
2.5 kVA to 500 kVA



DGS&D Approved



SMS GENSET TO 56767

Toll Free No.: 1800 266 0670

www.greavespower.com

Greaves Cotton Limited
Auxiliary Power Business

Company Introduction

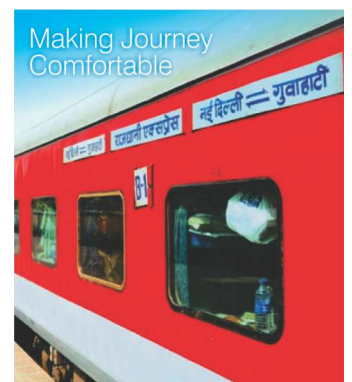
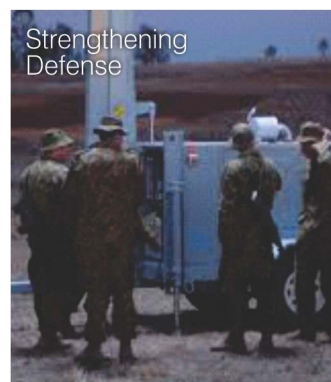
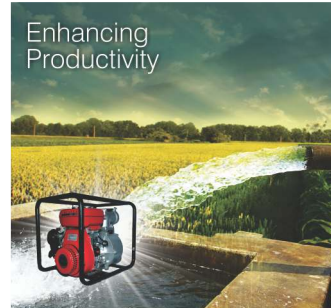
- Among India's leading and one of the oldest engineering companies.
- Core Competencies: Diesel/ Petrol Engines, Gensets, Pump-sets and Construction Equipment.
- Manufacturing 5 lakh engines annually.
- More than 80% of diesel 3-wheelers in India, run on Greaves engines.
- 11 state-of-the-art manufacturing facilities spread across the country, and excellent infrastructure for R & D.
- Significant Strengths: Technology. Value. Reach.
- Strong team of more than 200 R&D professionals.
- Extensive Marketing and Service Network: Over 1200 sales & service centres across India.
- Global footprint, with local presence in South-East Asia, Africa and Middle-East.

Auxiliary Power Business

- Over 5 decades of experience in generator sets.
- Wide product range from 2.5kVA to 500kVA.
- CPCB-II Compliant Gensets: Fuel-efficient, rugged and reliable.
- Total solutions by single point of contact for sales & service: anytime, anywhere.
- State-of-the-art technology centre at Pune for multi-cylinder / higher HP engines and gensets.
- Testing facility equipped with sophisticated equipment is among the best in the industry and can test engines up to 2 MW.
- Segments we serve: Banks, Education, Government, Petroleum, Malls, Hospitals, Hotels, Industries, Manufacturing, Railways, Infrastructure, Engineering, Dairy, Telecom, Food Processing, Textile and many more.

GreavesPower - Performance in Demanding Conditions

- Greaves Gensets powered India's Antarctica Mission in 1982, operating continuously at sub-zero temperature.
- Power cars of the premium air-conditioned trains in the Indian Railways are powered by Greaves Gensets.
- Greaves Gensets installed along the India-Bangladesh border help armed forces everyday from sunset to sunrise to keep a vigil.
- Supporting power requirement of India's largest project in the Oil & Gas industry.



Model	GPWII-P11-10	GPWII-P11-15	GPWII-P11-20	GPWII-P11-25	GPWII-P11-30	GPWII-40A	GPWII-45A	GPWII-P11-45	GPWII-P11-50	GPWII-P11-62.5	GPWII-P11-75	GPWII-P11-82.5	GPWII-P11-100	GPWII-P11-125	GPWII-P11-160	GPWII-P11-180	GPWII-P11-200	GPWII-P11-250	GPWII-320	GPWII-400	GPWII-500	
Power Rating (kVA/kW)	10 / 10	15/12	20/16	25/20	30/24	40/32	45/36	45/45	50/50	62.5/50	75/60	82.5/66	100/80	125/100	160/160	180/144	200/160	250/200	320/320	400/400	500/400	
No. of Phases	1/3	1/3	1/3	1/3	1/3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Power Factor	0.8/1	0.8	0.8	0.8	0.8	0.8	0.8	0.8/1	0.8/1	0.8	0.8	0.8	0.8	0.8	0.8/1	0.8	0.8	0.8	0.8/1	0.8/1	0.8	
Current @ 0.8 PF (Amps)	43.4/13.9	65.2/20.8	86.9/27.8	108.6/34.7	130/41.7	55.6	62.6	62.6	69.6	87	104.3	114.3	139.1	173.9	222.6	250.4	278.2	347.8	445.2	556.5	695.6	
Battery Rating	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 88AH	12V, 120AH	12V, 120AH	12V, 120AH	12V, 120AH	24V,2*180AH	24V,2*180AH	24V,2*180AH	24V,2*180AH
Integral Fuel Tank Capacity (Ltrs)	50	50	75	75	75	100	100	100	150	150	150	150	250	250	360	360	360	440	990	990	990	

Engine : 1500 RPM, with Premix coolant - 50:50 of Ethynol Glycol and DM water

Model	G-12-II	G-15-II	G-20-II	G-30-II	G-30-II	G-40-II	G-40-II	3G11TAG25	3G11TAG25	3G11TAG25	3G11TAG26	3G11TAG26	4G11TAG25	4G11TAG26	6G11TAG29	6G11TAG29	6G11TAG29	D3V6TAG21	12V14TAG23	12V14TAG23	12V14TAG23	
Aspiration	Natural	Natural	Natural	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled	Turbocharged & aftercooled
No. of Cylinders	2	2	3	3	3	4	4	3	3	3	3	3	4	4	6	6	6	6	12	12	12	
Compression Ratio	17.5	17.5	17.5	17.5	17.5	17.5	17.5	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	17	17	17	
Bore x Stroke (mm)	91X110	95X110	91X110	91X110	91X110	91X110	91X110	108X133	108X133	108X133	108X133	108 x 133	108 x 133	108 x 133	108X133	108X133	108X133	128X130	115X135	115X135	115X135	
Cubic Capacity (Ltrs)	1.43	1.56	2.14	2.14	2.14	2.86	2.86	3.66	3.66	3.66	3.66	3.66	4.87	4.87	7.31	7.31	7.31	10.03	16.8	16.8	16.8	
Power (HP)	18	21.6	25.2	42	42	58	58	80.1	80.1	80.1	101.2	101.2	126.5	155	243.1	243.1	243.1	309	604	604	604	
Power (kW)	13.25	15.9	18.5	31.2	31.2	42.8	42.8	59	59	59	74.5	74.5	93	114	178.8	178.8	178.8	227	444	444	444	
Governing*	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Mech. / G2	Electronic /G3	Electronic /G3	Electronic /G3	Electronic /G3
Starting System	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	12V ESE	24V ESE	24V ESE	24V ESE	24V ESE
Lube Oil Sump Capacity (Ltrs) with filter	5.5	5.5	6.5	6.5	6.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	10	10	17	17	17	30	50	50	50	
Lube oil Specification	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14	15W40 Greaves Maxtherm API C14

Alternator: AVR Controlled, Brushless Alternator with 3ph, 50Hz ,voltage range-415-440 volts. IP23 Protection, Voltage Regulation +- 1%. Single Phase Voltage 230 Volts. Insulation class H with temperature rise restricted to class H limits.

Make: Crompton Greaves (for other alternator make and temperature raise refer to factory)

Genset Installation																					
Al Armoured cable (3.5 Core, Sq.mm) *are with 1 core x no. of run for copper cable	16 x 2 */ 2.5 x 4*	25 x 2*/ 6 x 4*	35 x 2*/ 10 x 4*	50x 2* / 25 x 1, 10 x 4*	50 x 2* / 25 x 1	25 x 1	25 x 1	25 x 1	35 x 1	50 x 1	70 x 1	70 x 1	95 x 1	150 x 1	185 x 1	240 x 1	150 x 2	185 x 2	150 x 3	240 x 3	185 x 4
Exh. Pipe Size (mm)	2" NB	2" NB	2" NB	2"NB	2" NB	2" NB	2" NB	2" NB	3" NB	3" NB	3" NB	3" NB	4" NB	4" NB	4" NB	5" NB	5" NB	5" NB	5" NB	5" NB	5" NB

Dimensions																					
L x W x H (mm)	1800 x 950 x 1335	1800 x 950 x 1335	1990 x 950 x 1335	1990 x 950 x 1335	1990 x 950 x 1335*	2350 x 950 x 1380	2350 x 950 x 1380	2500 x 1150 x 1535	2500 x 1150 x 1535	2500 x 1150 x 1535	2800 x 1150 x 1540	2800 x 1150 x 1540	3000 x 1350 x 1884	3000 x 1350 x 1884	3800 x 1350 x 1900	4000 x 1600 x 1900	4000 x 1600 x 1900	4500 x 1800 x 2200	5600 x 2000 x 2300	5600 x 2000 x 2300	5600 x 2000 x 2300
Weight (Kg) (approx.)	600	740	860	1180	1180	1350	1400	1495	1640	1640	1670	1670	1860	2000	3025	3400	3500	4050	5500	6200	6700

*For 30 kVA Single phase (GPWII-30) Dimension are 2300 X 950 X 1360
Prime Power Ratings: Applicable for supplying power to varying electrical load for unlimited hours and is in accordance with ISO8528.
10% Overload is available for 1 hour in every 12 hours of operation.

*Due to the policy of continuous improvement, the specifications may change without prior notice.
**G3 governing is available in 10 to 200kVA with optional Electronic Governor

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 CPCBII norms.
- Individual cylinder head design. Savings on maintenance, cost and time (45kVA onwards).
- Modular design. High degree of commonality of hardware and components over entire range.
- Easy accessibility of all maintenance parts.
- Deep skirt 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 0°C to 50°C.
- Wet liner construction eliminates time consuming and expensive block re-boring during overhauls.
- Gear-driven water pump (45 kVA onwards) improves the reliability of the cooling system.
- Easy fitment of electronic governor when required.

DG Sets - State-of-the-art Acoustic Enclosures

- Most compact acoustic enclosures. Best-in-class in India. Have the smallest footprint and space envelope. Saves space, a very precious resource in an increasingly crowded world.
- 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 / stainless steel fasteners and hardware for trouble-free operation.
- Fabricated out of CRCA steel after 9 tank surface pre-treatment and pure polyester powder coating in a fully automated process with CNC punching / laser machines.
- Excellent UV resistance. High retention of surface finish in outdoor installations and corrosive environments.
- Acoustic insulation with Foam / Rockwool material conforming to IS 7888/IS 8183.
- Water and lube oil drain outlets located on the outer surface - Leading to ease of maintenance and cleanliness.
- Lowest vibrations - most suitable for roof-top installations.

Integrated DG Set Controller

The unique integrated DG Set Controller 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.

Display Parameters	Audio-Visual Warning	Shut-down with Audio-Visual Annunciation
Engine oil pressure, Coolant temperature, Fuel level indication %, Battery voltage, Engine rpm, DG set hours run, Gen. volts (phase-neutral and phase-phase), Gen. current (Amps), Power factor, kWhr, kW	Low oil pressure, High coolant temperature, Low battery voltage, Low fuel level	Low oil pressure, High coolant temperature, Engine over speed, Engine under speed, Under voltage, Over voltage, Over frequency, Under frequency, Low water level*, High canopy temp*



*Applicable for 160kVA and above

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

Scope of Supply

The RTU DG Set is supplied with the following standard accessories:

- In-built control panel with complete internal wiring/cabing
- Residential silencer - mounted with complete exhaust piping
- 12V88AH/120AH battery/24V, 2 x 180 AH battery
- In-built fuel tank

Optional

- Electronic governor in lieu of mechanical governor
- AMF control panel with auto change-over feature and synchronising panels
- Cold starting aid
- Trailer / trolley mounted mobile sets
- Single phase alternator in lieu of 3 phase
- Genset controller with remote monitoring feature
- Heavy duty air filter

Sales and Service Network



- Head Office
- Corporate Office
- ▲ Branch Office
- ◆ Regional Office
- ✱ Greaves Dealer Outlet

Our Esteemed Customers



Greaves Cotton Limited

Auxiliary Power Business

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ISO 9001:2008 certified by



ISO 14001:2004 certified by



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