



Company Introduction

- India's leading 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
- More than 85% of diesel 3-wheelers in India, run on Greaves engines

- 5 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 300 R&D professionals
- Extensive Marketing and Service Network: Over 1200 sales & service centres across India
- Global footprint, with local presence in SAARC, Africa and Middle-East

Powering Lives



Driving Business



Enhancing Productivity



Engines of Growth



Power Gen Business

- Over 5 decades of experience in generator sets. 1 Lakh+ Gensets population in Operations
- New Genset Manufacturing facility at Chakan with annual capacity of more than 10000 Gensets
- Fuel-efficient, rugged and reliable
- Total solutions by single point of contact for sales, service & spare parts: anytime, anywhere

- 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 Chakan and Chinchwad Pune for multi-cylinder / higher HP engines and gensets
- Segments we serve: Real Estate, Malls, Hospitals, Hotels, Industries, Manufacturing, Infrastructure, Engineering, Dairy, Petroleum, Telecom, Food Processing, Textile & more

Powering Missions



Supporting Large Infrastructure Projects



Application and More



DG Set Technical Specifications***

Genset Model	GPWII - PII - 10E	GPWII - PII - 15X	GPWII - PII - 20X	GPWII - PII - 25E	GPWII - PII - 30X	GPWII - PII - 40X	GPWII - PII - 45X	GPWII - PII - 45B	GPWII - PII - 50	GPWII - PII - 62.5	GPWII - PII - 75	GPWII - PII - 82.5	GPWII - PII - 100	GPWII - PII - 125	GPWII - PII - 160E	GPWII - PII - 180	GPWII - PII - 200	GPWII - PII - 250	GPWII - PII - 320	GPWII - 400	GPWII - 500	
Power Rating (kVA/kW)	10/8**	15/12	20/16	25/20	30/24***	40/32	45/36	45/36**	50/40	62.5/50	75/60	82.5/66	100/80	125/100	160/128	180/144	200/160	250/200	320/256	400/320**	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	
Current @ 0.8 PF (Amps)	43.5/13.9	65.2/20.9	87.0/27.8	108.7/34.8	130.4/41.7	55.7	62.6	62.6	69.6	87	104.3	114.8	139.1	173.9	222.6	250.4	278.3	347.8	445.2	556.5	695.6	
Battery Capacity (AH)	88	88	88	88	88	88	88	88	88	88	88	88	88	88	120	120	120	2 X 180	2 X 180	2 X 180	2 X 180	
Integral Fuel Tank Capacity (L)	40	40	60	60	60	100	100	100	150	150	200	200	350	350	360	400	400	680	810	990	990	
Engine: 1500 RPM, with coolant premix of 50/50 Ethylene Glycol and DM Water																						
Engine Model	G12 - II	G15 - II	G20 - II	G25 - II	G30 - II	G40 - II	G40 - II	3G11TAG25	3G11TAG25	3G11TAG25	3G11TAG26	3G11TAG26	4G11TAG25	4G11TAG26	6G11TAG29	6G11TAG29	6G11TAG29	D3V6TAG21	D3V8TAG21	12V14TAG23	12V14TAG23	
Aspiration	NA	NA	NA	TCAC																		
No. of Cylinders	2	2	3	3	3	4	4	3	3	3	3	3	4	4	6	6	6	6	8	12	12	
Compression Ratio	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	16.8	16.8	17	17	
Bore x Stroke (mm)	91 X 110	95 X 110	91 X 110	108 X 133	128 X 130	128 X 130	115 X 135	115 X 135														
Cubic Capacity (L)	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	10.04	13.38	16.83	16.83	
Power (HP)	18.00	21.60	25.20	34.20	42.00	58.00	58.00	80.20	80.20	80.20	101.30	101.30	126.40	155.00	196.50	243.10	243.10	308.60	386.10	603.70	603.70	
Power (kW)	13.43	16.11	18.80	25.51	31.33	43.27	43.27	59.83	59.83	59.83	75.57	75.57	94.29	115.63	146.59	181.35	181.35	230.22	288.03	450.36	450.36	
Governing Class	Mech/G2	Elec/G3	Elec/G3	Elec/G3	Elec/G3																	
Starting System	12V ESE	24V ESE	24V ESE	24V ESE	24V ESE																	
Lube Oil Sump Capacity with Filter (L)	5.5	5.5	6.5	6.5	6.5	8.5	8.5	8.5	7.6	7.6	7.6	7.6	10	10	17.5	17.5	17.5	27.5	40	50	50	
Lube Oil Specification	15W40, API C14, Greaves Maxtherm																					
Alternator: 3P, 50 Hz, brushless alternator with AVR, voltage range of 415 - 440V, IP23 protection. 1P alternator of 230V. Insulation class H with temperature rise limited to class H																						
**Fuel Consumption (LPH)																						
100% Load	3.0	3.9	5.0	6.3	7.4	9.0	11.1	10.7	12.1	14.9	17.5	19.1	23.6	28.6	36.5	40.2	44.8	58.2	76.5	84.7	107.9	
75% Load	2.3	2.8	3.8	5.0	5.9	7.0	8.6	8.5	8.9	11.0	12.6	14.0	17.4	20.8	27.2	30.2	33.0	42.3	57.7	63.6	82.5	
Genset Installation																						
3.5 Core Cable Aluminum Armored (mm x runs)	10 X 1	16 X 1	25 X 1	25 X 1	25 X 1	35 X 1	35 X 1	35 X 1	50 X 1	70 X 1	95 X 1	95 X 1	150 X 1	95 X 2	120 X 2	150 X 2	185 X 2	70 X 4	120 X 4	185 X 4	240 X 4	
3.5 Core Cable Copper Armored (mm x runs)	2.5 X 1	4 X 1	4 X 1	6 X 1	10 X 1	16 X 1	25 X 1	25 X 1	25 X 1	35 X 1	50 X 1	70 X 1	95 X 1	120 X 1	70 X 2	95 X 2	120 X 2	95 X 3	150 X 3	150 X 4	185 X 4	
Exhaust Pipe Dia (NB)	2"	2"	2"	2"	2"	2"	2"	2"	3"	3"	3"	3"	4"	4"	4"	5"	5"	5"	5"	5"	5"	
Genset Dimensions (mm)																						
L X B X H	1420 X 930 X 1242	1420 X 930 X 1242	1650 X 930 X 1242	1650 X 930 X 1242	1650 X 930 X 1242**	1890 X 930 X 1320	1890 X 930 X 1320	2500 X 1150 X 1545	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	5000 X 2000 X 2220	5600 X 2000 X 2300	5600 X 2000 X 2300	
Approx Weight (Kg), Dry	595	660	810	860	945	1260	1490	1210	1210	1230	1270	1270	1600	1610	2150	2295	2300	4050	4300	5490	5610	

** Genset can be used for PF 1
 *** For 30 kVA 1P (GPWII-PII-30S) dimensions are 1890 x 930 x 1320 (mm)
 Conformance standards: Engine BS 5514, ISO 3046, Alternator IS 4722, IS 13364 (I & II), Genset ISO 8528
 All gensets are rated for Prime Power, i.e. applicable for supplying power to varying electrical load for unlimited hours. Prime Power (PRP) is in accordance with ISO 8528
 Please contact your nearest Greaves Power sales team or official channel partner for any genset accessories, customization or technical queries
 Product specifications are subject to change without prior notice due to the policy of continuous improvement

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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 following benefits –
 - Increased wear life & extended Overhauling periods
 - Hassle-free operation in Low and high ambient 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.
- Engines with Electronic Governor from 250-500 kVA as Std, and other range optional.

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

- Smallest Footprint through Most compact acoustic enclosures.
- Lowest vibrations - most suitable for roof-top installations.
- Enclosures Louvers & Radiators are designed to ensure safe operations upto 50°C.
- Silencers inside upto 200 kVA Gensets lowering the height of the gensets.
- Enclosures & doors are designed for ease of Service, Access & Maintenance of DG set & Radiator
- CRCA steel Material processed with CNC punching/laser cutting machines to ensure precision.
- Surface treatment with 9 tank process to give high retention of surface finish
- Fully automatic, Pure Polyester and UV resistance powder coating process for outdoor installations and corrosive environments.
- Acoustic insulation with Fire retardant 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.
- Toughened glass inspection window for clear view of control panel.
- Green passivated/stainless steel fasteners and hardware for trouble-free operation.

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: RPM, Oil Pressure, Coolant Temp, Fuel level %, Battery Voltage. DG set: Hours run, Gen. volts (L-N, L-L) Gen. Current (Amps), kW, PF & kWhr.	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

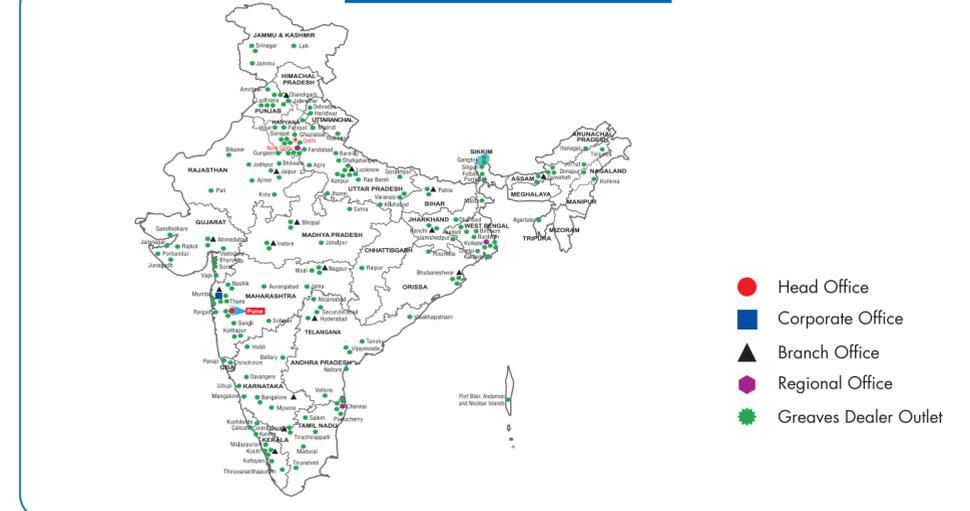
The Ready to Use DG Set is supplied with the following standard accessories:

- In-built control panel with complete internal wiring/cabling
- Residential silencer - mounted with complete exhaust piping
- Right size Lead Acid Fully charged & tested battery
- In-built fuel tank to ensure Min. 8 Hrs. run @ 80% Load

Optional

- Electronic governor in lieu of mechanical governor upto 200kVA
 - AMF/ATS panel with auto change-over features
- Auto / Manual synchronising panels
- Trailer / trolley mounted mobile sets
 - Single phase alternator in lieu of 3 phase
 - Genset controller with remote monitoring feature
 - Heavy duty air filter
 - Cold starting kit for Engine
 - PMG, RTD/BTD, space Heater to Alternator

Sales and Service Network



Our Esteemed Customers



Greaves Cotton Limited

Auxiliary Power Business

Akurdi Chowk, Mumbai – Pune Highway, Chinchwad , Pune - 411019. Tel: +91-20 - 67308200 | 7030939506
Email: greavespower.sales@greaves cotton.com | Website: www.greaves cotton.com

Corporate Office: Unit No. 701, 7th Floor, Tower 3, Equinox Business Park, LBS Marg, Kurla West, Mumbai- 400070.
Tel: +91-022-6221 1700 | Fax: 022- 3381 2799

Head Office: Pune - Akurdi Chowk, Mumbai – Pune Highway, Chinchwad, Pune - 411019.

Chennai: Greaves Cotton Ltd., Bharati Vilas, 2nd Floor, 26B Jawaharlal Nehru Salai Ekkattuthangal Guindy Industrial Estate Chennai 600032.

Bengaluru: Greaves Cotton Ltd., 5th Floor, PTI Building, 16/7 Miller Tank Bund Area, Vasanthnagar, Bangalore 560052

Gurgaon: G002, Unit-II, Global Business Park, M.G.Road, Gurgaon-122002

Kolkata: Victoria Park, 09th Floor, Block – GN, Plot, 37/2, Sector – V, Salt Lake, Kolkata- 700091, West Bengal, India

Greaves Channel Partners

POWERING PROGRESS



Diesel Generator Set
2.5 kVA to 1250 kVA



FEATURES

- Superior Aesthetics & Paint Finish
- Greaves Factory Built Gensets
- Best TCO-Total Cost of Ownership
- Compact Size with Lowest Footprint
- Single Window: 3S

GREAVES

Auxiliary Power Business

www.greaves cotton.com