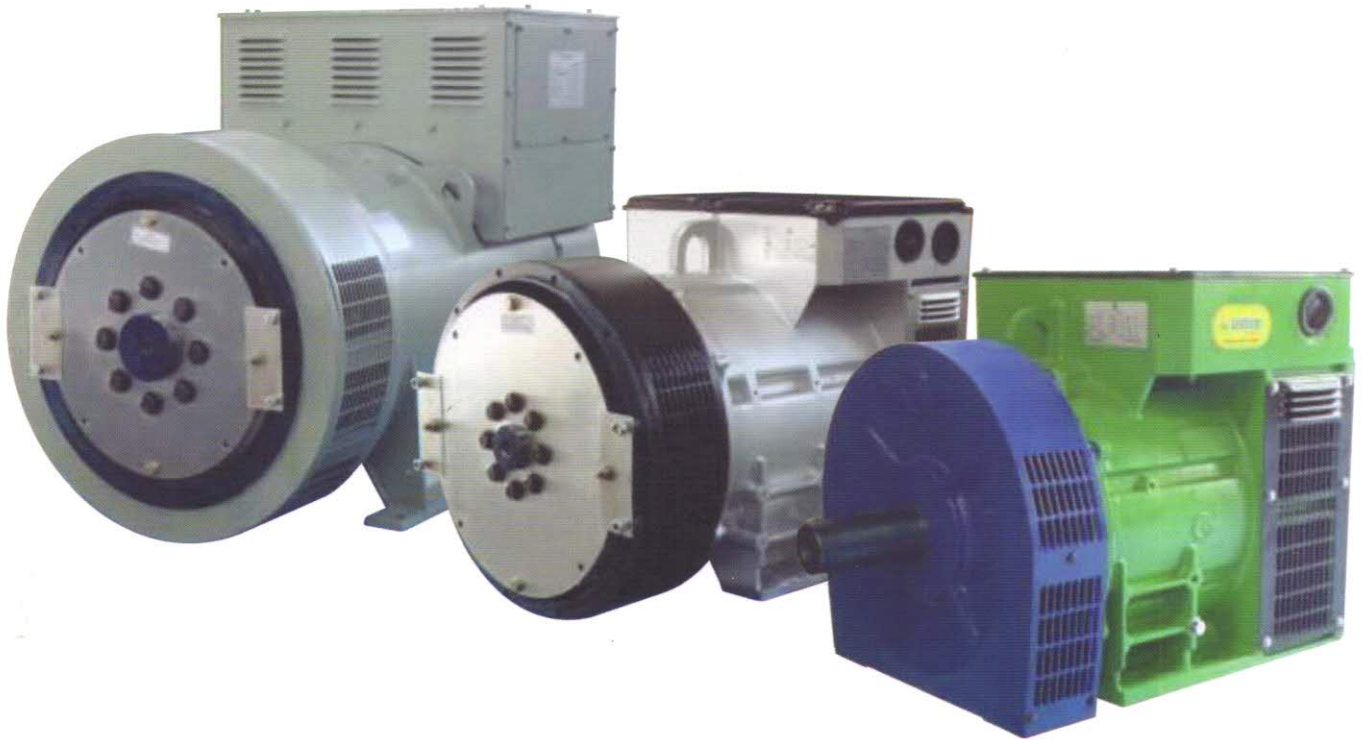




Smart solutions.  
Strong relationships.

# AC Generators

5 kVA to 1010 kVA



Robust and Reliable...



AVANTHA  
GROUP COMPANY





Crompton Greaves (CG) is part of the US\$ 4 bn Avantha Group, a conglomerate with an impressive global footprint.

Since its inception CG has been synonymous with electricity. CG's India operations were established in 1937, and since then the company has retained its leadership position in the management and application of electrical energy.

Today, Crompton Greaves India's largest private sector enterprise. It has diversified extensively and is engaged in designing, manufacturing and marketing technologically advanced electrical products and services related to power generation, transmission and distribution, besides executing turnkey projects. The company is customer-centric in its focus and is the single largest source for a wide variety of electrical equipments and products.

With several international acquisitions, Crompton Greaves is fast emerging as a first choice global supplier for high quality equipment through its three business groups viz;

**Power Systems :**

- Transformer ● Switchgear ● Power Quality
- Engineering Projects

**Industrial Systems :**

- Motors ● Alternators ● Drives
- Railway Signalling ● Stampings

**Consumer Products :**

- Fans ● Appliances ● Lighting
- Integrated Security Solutions & Home Automation
- Pumps

Crompton Greaves AC Generators are state-of-the-art, self-excited, self-regulated and dependable source of power.

A modern integrated manufacturing facility for rotating machines, ISO 9001 certified by BVQI UK, with structured TQM and 6 SIGMA implementation and SAP/R3 enabled, also houses dedicated plant for AC Generators deploying superior techniques and processes in each specialized field of design, material specifications and procurement, CNC machining, assembly, testing & packing.... with stringent quality standards predominating throughout.

These generators incorporate advanced European Technology and are designed for optimum performance using high-end software solutions. With well-qualified engineers and technocrats, backed by a strong R & D Team, Crompton Greaves have fully harnessed long experience in design and software to offer a range of innovative, reliable and efficient AC Generators.

### SPECIAL FEATURES

- Parallel Operation Provision  $\geq 45$  kVA as a Standard Feature
- Analogue Input facility for  $\geq 180$  kVA as a Standard Feature ( $\pm 5V$  DC)
- QDC CT for Parallel Operation  $\geq 180$  kVA as a Standard Feature
- Short Circuit Maintenance  $\geq 750$  kVA as standard feature
- Special marine alternators with short circuit maintenance.
- Ease of maintenance with integrated components and outboard Exciter/Rotating Rectifier.
- A reliable long life with superior class 'H' insulation.
- Higher motor starting capability.
- Compact, light and sturdy die cast aluminum stator for frames upto 250, offer superior finish.
- Specially designed compact slipring and brush assembly.
- High thyristor load withstand capability for Cell-Phone and Telecom applications.
- Wide range of coupling discs / adaptor for single bearing construction suitable for wide range of Engine makers.

### APPLICATIONS

- Industries
- Telecom, Cell-Phone Towers
- Defense
- Agriculture
- Marine.
- Hotels, Hospitals, Commercial & Residential Complexes, Petrol pumps
- Construction sites, Stone Crushers & hot Mixing plants.
- Trailer mounted mobile sets for rental markets
- Trailer mounted mobile sets for Air Force.
- Railways

### RANGE :

#### Brushless AC Generators :

##### Three Phase Series :

- 5 kVA to 1010 kVA, in 3 phase, 415 V, 50 Hz, 0.8 pf (lag)
- Single or Double bearing.

##### Dedicated Single Phase Series :

- 5 kVA to 50 kVA in single phase, 240 V, 50 Hz, 0.8 pf (lag)
- Single & Double bearing.

#### Brushless Alternators with SCM as standard :

- 680 kVA to 1010 kVA, in Three phase, 415 V, 50 Hz, 0.8 pf (lag)

#### 'Ustad' Series Slip-Ring AC Generators :

- 5 kVA to 82.5 kVA, in Three phase, 415 V, 50 Hz, 0.8 pf (lag)
- Single or double bearing.
- 5 kVA to 25 kVA in single phase, 240 V, 50 Hz, 0.8 pf (lag)
- Double bearing
- Also available in Single Bearing

#### 2 Pole Brushless AC Generators :

- 5 kVA to 30 kVA, in 3 phase, 415 V, 50 Hz, 0.8 pf (lag)
- Single or double bearing.
- 5 kVA to 15 kVA in single phase, 240 V, 50 Hz, 0.8 pf (lag)
- Single & double bearing.

### OPERATING IN DIFFERENT ENVIRONMENTS

- For use of the AC Generator at altitudes higher than 1000 m. above the sea level, it is necessary to derate by a factor of 4% for every 500 m above 1000 m.
- If the ambient temperature exceeds 40 deg. C, the derating factor to be incorporated is 4% for every 5 deg. C of increase.

### STANDARDS COMPLIANCE

- IEC : 34
- BS : 5000 (Part 99)
- EN : 50081
- IS : 4722 & 13364 (Part I & II) with CE mark for brushless designs.

### MECHANICAL FEATURES

- Aluminium frame die - cast stator upto 250 and steel stator for higher frames.
- Sturdy cast iron endshields fixed on to the stator frame by high tensile screws.
- High quality steel shafts are amply designed to take care of overload and short circuit stressed conditions.

