



KIRLOSKAR ELECTRIC

Committed to Innovation and Excellence



AC GENERATORS



Product Line of Kirloskar Electric

AC & DC Motors | Generators | Transformers | Switchgear | Drives | DG Sets | Projects | Engineering

ISO 9001:2008



Kirloskar Electric over the last six decades, has carved a niche for itself in the electrical manufacturing industry. It has various well equipped manufacturing units manufacturing a wide range of AC Generators.

Kirloskar Electric produces the widest range of indigenously designed AC Generators up to a capacity of 20000 kVA. A large range of HT and LT generators at various speeds are offered for coupling with a variety of prime movers.

Kirloskar Electric has met the challenge posed by power deficiency by developing generators suitable for a variety of prime movers like diesel engine to meet the continuous 24 hour power requirement, for example- airports.

Kirloskar Electric has been manufacturing AC Generators for all the sectors and applications. This has resulted in a production of several million AC Generators.

Our AC Generators have also made a mark in critical applications like nuclear power stations, sub-zero ambient, radar communication, off-shore drilling platforms, missile projects, front-in-line battle ships.

AC GENERATOR INSTALLED IN NAVAL OFF SHORE PATROL VESSEL

Kirloskar Electric AC Generators (in both open and closed type construction) coupled with steam turbine are working in continuous process plants like sugar, chemical, fertilizer and private power plants exporting power to the national grid.

They are specially designed for micro and mini-hydel applications to take care of high thrust, high-GD sq and run-away speed requirements. We have the expertise to design and manufacture AC Generators in both horizontal and vertical applications.

SALIENT FEATURES

AVR used on the machines is of proven design, highly reliable and excellent in performance. Each unit is encapsulated for protecting from sand, salt, humidity and corrosive atmosphere. This will ensure trouble free operation during demand. Voltage regulation offered is from 0.3% to 1.5% depending on the type of AVR used.

PRODUCT RANGE

- > 1,000 kVA, 1500 rpm AC Generators for diesel engine applications for voltages ranging from 400-440 V, 3300 V, 6600 V, 11000 V & 13800 V.
- Slow speed AC Generators of 500, 750 and 1000 rpm for large diesel engines.
- Steam turbine driven AC Generators suitable for all voltages in speed 1500 rpm up to 15 MW in open and closed-type construction.
- AC Generators for mini and micro hydel applications both in horizontal and vertical configuration.
- AC Generators for special application like transformer testing, high frequency, low power factor and single phase loads.

- AVR is compatible for PLC and add-on features like OER, UER, APFC, SCL, OVR, UVR and DFR.
- Stand-by manual voltage control system with auto tracking to facilitate transfer from auto to manual.
- Custom built panel to accommodate instrumentation display, alarm and add on features as above.
- Stand-by AVR with manual change over facility in case of AVR failure.
- Optional 12 lead output connectable to provide output from 190 V to 440 V through series/parallel connections.
- Short circuit maintenance to provide field forcing during short circuit.
- Wave form distortion on load is $\leq 2\%$.
- Stators are wound to 2/3rd pitch to eliminate odd harmonics.
- As an optional feature the AVR is fed from independent PMG to ensure stable operation while feeding non-linear loads.
- Damper winding on poles to ensure smooth parallel operation with machines and grid.
- Liberally rated diodes are used in RRA for ensuring high reliability.
- Diodes protected by surge suppressor of high energy withstand capability to suppress transients.
- A gel coat application enhances mechanical strength of overhang and ensures protection against humid and corrosive atmosphere.
- Rotor construction is of salient or cylindrical type.
- Shaft strengthened adequately to withstand runaway speed requirement.
- Flywheel arrangement to enhance inertia need for hydro applications.
- Brake system for faster deceleration of rotor.
- Spherical roller bearing arrangement for thrust loads.
- High short circuit ratio to ensure better electrical stability for hydro generators.
- Suitable for shock grade in line with BR3021 for Navy applications.
- Construction in line with NES 630 for Navy applications.
- Classification in line with LRS and ABS for Navy applications.
- EMI and EMC compatibility in line with mill standard 461D for Navy machines.
- Compatible to meet Railway specifications.

KIRLOSKAR ELECTRIC CO. LTD.

Regd. Office: PB. No. 5555, Malleswaram West, Bangalore 560 055 | Tel: 080-23374865 | Fax: 080-23377706
Email: acg@gov.vrkec.com | www.kirloskar-electric.com