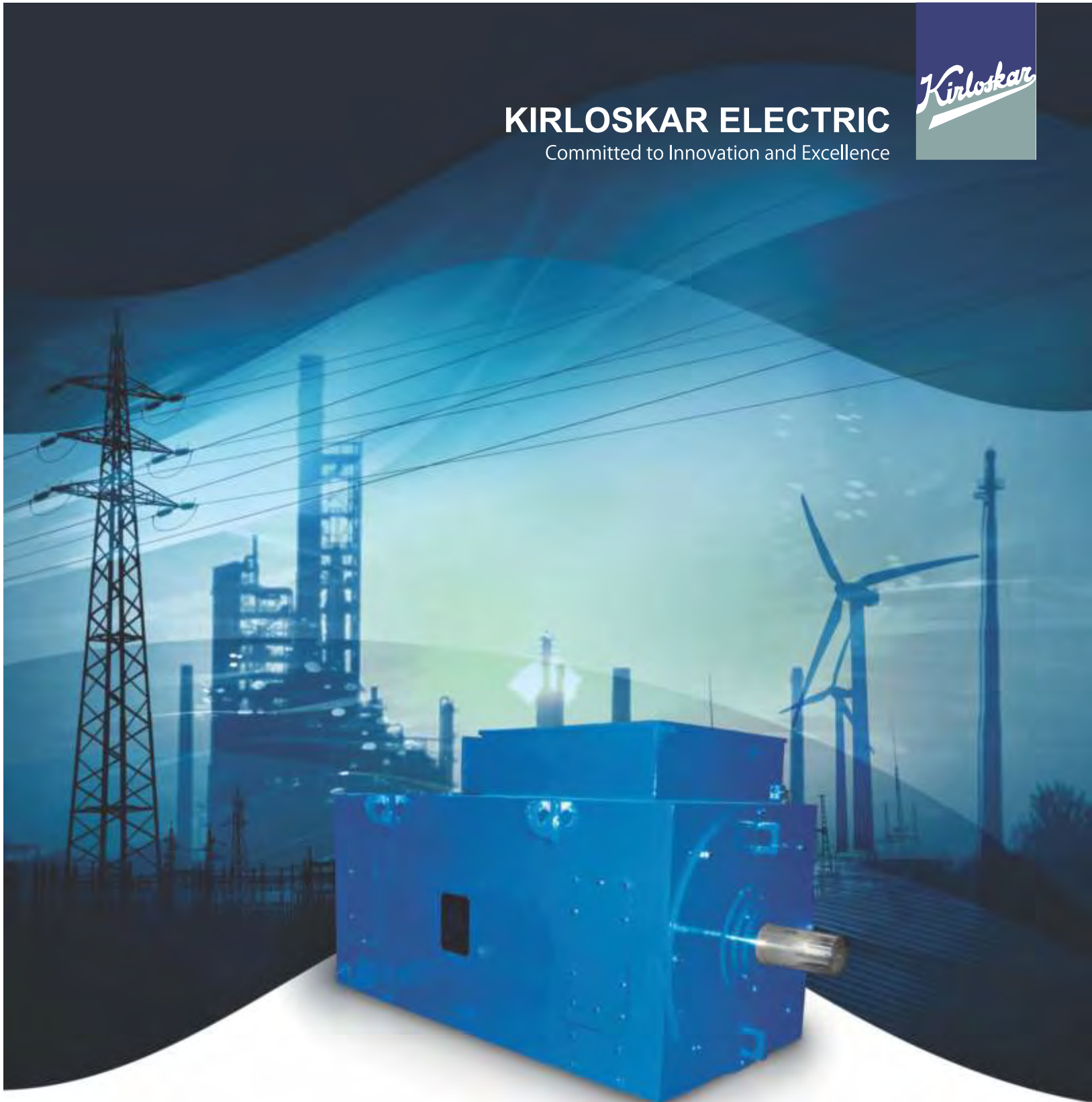




KIRLOSKAR ELECTRIC

Committed to Innovation and Excellence



DOUBLE-FED ASYNCHRONOUS GENERATORS



Product Line of Kirloskar Electric

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

ISO 9001:2008



BUREAU VERITAS

DOUBLE-FED ASYNCHRONOUS GENERATORS

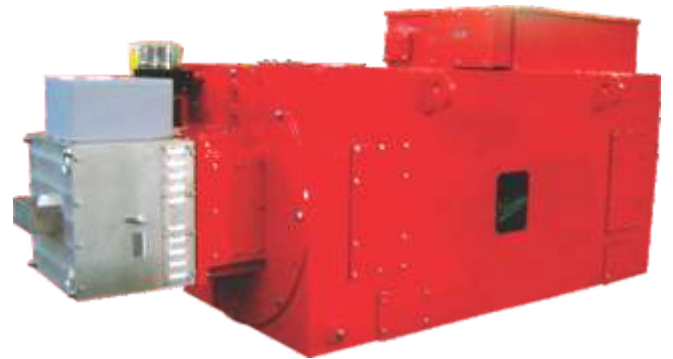
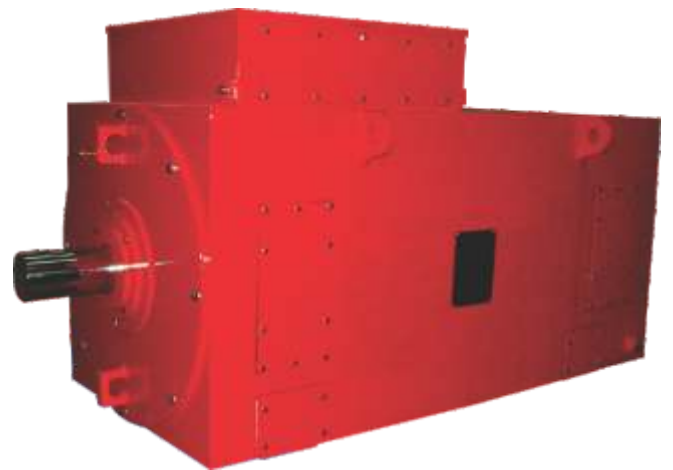
Operation of double fed asynchronous generator calls for the stator to be connected directly to the grid and contributes around 2/3rd of the rated power. The rotor is designed as a slip-ring rotor and feeds the other 1/3rd of the rated power into the grid via a converter.

Kirloskar Electric have been developing and manufacturing slip-ring rotors for challenging applications since a long time.

The alignment of brushes and slip rings, plus rotor insulation against voltage peaks generated by the converter, and a reliable bearing design- including electrical insulation outside the bearing - are particularly important factors for reliable operation with a minimum of maintenance cost.

TECHNICAL SPECIFICATIONS

• Rating	: 1000 - 2000kW
• Phase	: Three
• Voltage	: Up to 690V
• Speed Range	: 1000 to 2000 RPM
• Poles	: 4 and 6 pole
• Power Factor	: from $\cos\phi=0.9$ lag to $\cos\phi=0.9$ lead
• Cooling	: Air/Air cooler Air/Water cooler

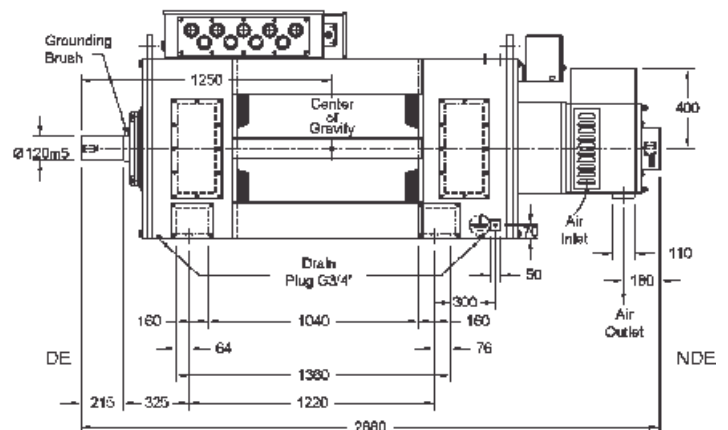
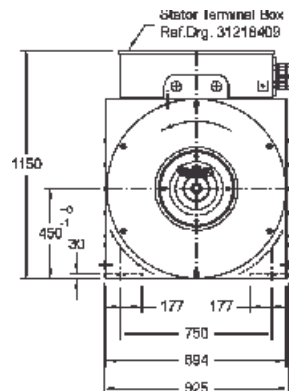


Outline General Arrangement

FULLY RATED CONVERTER

The above data also applies if a fully rated converter (complete rotational speed control) is used, but the speed adjusts itself to between 1000 and 1500 rpm according to the number of poles.

Used on type - LYDWG-450
1650 kW, 3Ph, 690V, 50Hz, 1500 RPM



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