

16 KVA – 1000 KVA

Distribution Transformers

Oil-immersed, ester-filled and dry type distribution transformers from 16 kVA to 1000 kVA (1 MVA) in the 11 kV and 33 kV classes, with CRGO or amorphous cores — built to IS 1180 and IS 2026, to any energy-efficiency level, and to your vector group and impedance rather than only ours.

RANGE

16 – 1000 kVA

OUTPUT

900 jobs a month

STANDARD

IS 1180 (Part 1):2014



Finished distribution transformers in the dispatch yard

Any rating in the distribution class.

Distribution transformers are the highest-volume line on the campus — around 900 jobs a month across the full IS 1180 rating ladder, from 16 kVA agricultural units to 1000 kVA industrial supply.

Standard build is Dyn11, ONAN, 11/0.433 kV or 33/0.433 kV, with off-circuit tapping. But almost nothing here is fixed: vector group, impedance, tapping range, winding material, fittings and efficiency level are all specified by the purchaser, and we build to that schedule rather than asking you to accept ours.

900 jobs / month

Sustained distribution-class output across the rating range.

16 – 1000 kVA

The full IS 1180 distribution ladder, single and three phase.

Level 1 to Level 5

Built to whichever IS 1180 efficiency level your tender specifies.

UTILITY

Distribution networks

Rural and urban feeders under national electrification and distribution strengthening programmes.

AGRICULTURE

Agricultural feeders

Pump-set and tube-well supply, including separated agricultural feeder schemes.

INDUSTRY

Industrial supply

Plant, warehousing and industrial estate supply at the higher end of the rating range.

COMMERCIAL

Developments

Township, institutional and commercial complex distribution.

Fields marked "On enquiry" are issued against a specific enquiry. Full specification, reference tables and fittings: aggarwalglobal.com/products/distribution-transformers.html

GENERAL

Rated capacity	16 kVA to 1000 kVA (1 MVA)
Phases	Three-phase and single-phase
Type	Oil-immersed, outdoor — sealed corrugated-tank or conservator type; dry type (AN) for indoor duty
Voltage class	11 kV, 22 kV and 33 kV systems
Standard voltage ratios	11 / 0.433 kV · 22 / 0.433 kV · 33 / 0.433 kV · 11 / 0.25 kV single-phase
Frequency	50 Hz standard; 60 Hz for export
Cooling	ONAN; ONAF on larger ratings; KNAN with natural ester fluid; AN for dry type
Mounting	Pole, plinth or platform — pole mounting up to 500 kVA by agreement
Duty	Continuous, outdoor
Applicable standards	IS 1180 (Part 1), IS 2026 (Parts 1–5), IEC 60076 for export

ELECTRICAL

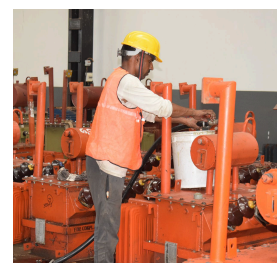
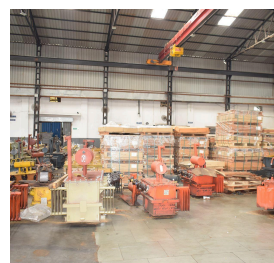
Vector group	Dyn11 standard; Dyn1, Dyn5, YNyn0, Yzn11 and others to order
Impedance	Per IS 1180 — 4.50% up to 630 kVA, 5.00% above 630 kVA to 1000 kVA (±10%)
Tapping	Off-circuit tap changer, +5% to –10% in 2.5% steps (7 positions); ranges to order
Energy efficiency	IS 1180 Level 1 to Level 5 — specify the level required
No-load current	≤ 3% of full-load current up to 200 kVA; ≤ 2% above 200 kVA
Insulation level (BIL)	75 kVp at 11 kV; 125 kVp at 22 kV; 170 kVp at 33 kV
Temperature rise	45 K winding by resistance, 40 K top oil, over 50 °C ambient
Insulation class	Class A

STANDARDS

IS 1180 (Part 1):2014	Outdoor oil-immersed distribution transformers up to 2500 kVA, 33 kV — including the energy-efficiency levels
IS 2026 (Parts 1–5)	Power transformers — general, temperature rise, insulation levels, terminal markings, short-circuit withstand
IEC 60076 series	International power transformer standard — the export equivalent
IS 3024	Cold-rolled grain-oriented (CRGO) electrical steel sheet and strip
IS 335:2018	Insulating mineral oil for transformers and switchgear
IS 3639:1966	Fittings and accessories for power transformers
IS 2099 / IS 7421	HV and LV porcelain bushings
IS 3637	Gas-and-oil-operated (Buchholz) relays

ROUTINE TESTS ON EVERY UNIT

- Winding resistance at each tap — IS 2026 (Part 1) cl. 16.2
- Voltage ratio, polarity, phase sequence and vector group — cl. 16.3
- Short-circuit impedance and load loss at 50% and 100% — cl. 16.4
- No-load loss and no-load current at 90%, 100% and 112.5% voltage — cl. 16.5
- Insulation resistance — cl. 16.6
- Separate-source voltage withstand — IS 2026 (Part 3) cl. 10



ENQUIRIES

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Delivery as per the client's requirement, confirmed with the quotation. Ex Factory or FOB for export.