

DISTRIBUTION TRANSFORMERS — 5 KVA TO 2,500 KVA / UP TO 66 KV

Distribution transformer kVA spectrum & selection guide

Oil-immersed distribution transformers with CRGO (or amorphous) cores, copper/aluminium windings, ONAN / ONAF cooling and OCTC / OLTC tapping. Built to IS 1180 / BEE Star and IEC 60076 / IS 2026. Jaybee range: 5 kVA–2,500 kVA, up to 66 kV.

JAYBEE — SINCE 1981 — POWERING INDIA

SINCE 1981 — POWERING INDIA

KNOW MORE BROCHURE ENQUIRE

1. kVA ratings

Compact / Light DT
5 kVA – 100 kVA

Pole / pad-mounted utility feeders, rural electrification and light industrial / commercial step-down at LV.

Medium DT
100 kVA – 500 kVA

DISCOM feeders, housing colonies and plant auxiliaries — low losses, weatherproof outdoor tanks, OCTC / OLTC options.

Large DT
500 kVA – 2,500 kVA

High-capacity distribution for estates, industrial parks and heavy feeders up to 66 kV class within Jaybee's DT range.

2. Technical specifications by tier

Parameter	Compact (5–100 kVA)	Medium (100–500 kVA)	Large (500–2,500 kVA)
Primary / secondary	Up to 11 kV class · 433 V / 250 V typical	Up to 33 / 66 kV class · 433 V typical	Up to 66 kV · 433 V / project LV or MV
Cooling	ONAN	ONAN / ONAF	ONAN / ONAF
Efficiency	IS 1180 / BEE Star 1–5 loss class	IS 1180 EEL1–EEL5 · BEE Star compliant	IS 1180 EEL / BEE Star · low-loss design
Impedance	As per IS 1180 / project %Uk	Project %Uk per IS 1180	Custom %Uk per utility / customer spec
Core	Low-loss CRGO (amorphous optional)	CRGO low-loss · amorphous on request	CRGO low-loss · amorphous metal on project basis
Windings	Copper or Aluminium	Copper or Aluminium	Cu / Al high-purity as specified
Tap changing	OCTC optional (±2.5% steps typical)	OCTC / OLTC + AVR	Off-load & On-load (OLTC) · AVR / remote panels
Applications	Rural / pole · Light commercial	DISCOM feeders · Colonies · Industry	Estates · Industrial parks · Heavy feeders
Standards	IS 1180 · BEE Star · IS 2026 · IEC 60076	IS 1180 EEL · BEE Star · IS 2026 · IEC 60076	IS 1180 · BEE Star · IEC 60076 · IS 2026

3. Why choose a distribution transformer?

Last-mile voltage delivery
Distribution transformers step medium voltage down to usable LV (typically 433 / 250 V) for homes, shops, farms and light industry — the final link between the grid and the consumer.

Low losses & BEE / IS 1180 compliance
Designed to IS 1180 energy-efficiency levels and BEE Star ratings. CRGO (or amorphous) cores cut no-load loss; optimised windings keep load losses within tender capitalisation limits.

Weatherproof outdoor utility duty
Hermetic / sealed or conservator tanks, radiators, breathers and fittings built for pole- or pad-mounted outdoor service — compact, corrosion-resistant and short-circuit capable.

Voltage regulation & tapping
OCTC or motorised OLTC with AVR keeps secondary voltage within band as feeder load and grid voltage swing — essential for DISCOM and industrial distribution quality.

4. Applications

DISCOM / Rural

Pole- and pad-mounted feeders for rural electrification and utility networks — 5 kVA upward, IS 1180 / BEE Star compliant.

Urban & Colonies

Housing societies, commercial complexes and township distribution — quiet, efficient outdoor units with OCTC / OLTC options.

Industrial estates

Plant auxiliaries, industrial parks and process loads up to 2,500 kVA / 66 kV class — ONAN / ONAF thermal headroom.

info@jaybeeindustries.com · www.jaybeeindustries.com
Toll Free 1800 3099 948 · Mob. 9816295407 · WhatsApp