



CAST RESIN DRY-TYPE TRANSFORMERS – 25 KVA TO 5,000 KVA / UP TO 33 KV



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Cast resin dry-type transformer spectrum & selection guide

Epoxy cast-resin dry-type transformers with CRGO cores, vacuum-cast windings, AN / ANAF cooling and Class F/H insulation. Zero oil · fire-safe indoor duty. Specified to IEC 60076-11 / IS 11171. VPI designs also available (to ~2.5 MVA / 11 kV). Jaybee CRT range: 25 kVA–5,000 kVA, up to 33 kV.

1. kVA ratings

Compact CRT 25 kVA - 250 kVA

Indoor step-down for floors, plant rooms and light commercial loads — compact open or IP-enclosed cast-resin units.

Medium CRT 250 kVA - 1,000 kVA

High-rises, hospitals and IT floors — AN / ANAF cooling, low partial discharge, Class F/H thermal class.

Large CRT 1,000 kVA - 5,000 kVA

Data centres, metros, airports and heavy indoor feeders up to 33 kV — open core or metal enclosure options.

2. Technical specifications by tier

Parameter	Compact (25–250 kVA)	Medium (250–1,000 kVA)	Large (1,000–5,000 kVA)
Primary / secondary	Up to 11 kV · LV 433 V / project	Up to 22 / 33 kV · LV as specified	Up to 33 kV · LV / MV project interface
Cooling	AN (ANAF optional)	AN / ANAF	AN / ANAF (forced air as required)
Efficiency	Low-loss CRT design · Class F/H	High efficiency · low no-load & load loss	≥ 99% class typical at design point
Impedance	Project / IEC practice %Uk	Project %Uk per IEC 60076-11	Custom %Uk for fault / voltage studies
Core	Low-loss CRGO	Low-loss CRGO, CAD-optimised	High-grade CRGO multi-step
Windings	Epoxy cast under vacuum (Cu / Al)	Vacuum-cast epoxy resin · Cu / Al	Vacuum-cast epoxy · Class F/H · low PD
Tap changing	Off-circuit taps as specified	OCTC / project tapping	Off-circuit or on-load as specified
Applications	Indoor plant rooms · Light commercial	High-rise · Hospital · IT floor	Data centre · Metro · Airport · Heavy indoor
Standards	IEC 60076-11 · IS 11171	IEC 60076-11 · IS 11171 · Class F/H	IEC 60076-11 · IS 11171 · IP enclosure options

3. Why choose a cast resin dry-type transformer?

Zero oil. Zero fire hazard

No mineral oil — epoxy cast windings are self-extinguishing and flame-retardant. Ideal where fire codes, occupied buildings and insurance rules rule out oil-filled units.

Moisture-proof & low maintenance

Vacuum-cast resin seals windings against humidity and pollution. No oil sampling, no leakage risk — lower lifecycle maintenance for indoor substations.

Indoor-ready & compact

Open core or IP metal enclosure options fit plant rooms, basements and floor risers. Low noise and high efficiency for continuous indoor duty.

Safe for critical facilities

Low partial discharge, Class F/H insulation and AN/ANAF cooling support hospitals, metros, airports, data centres and high-rise electrical rooms.

4. Applications

High-rise & commercial

Floor substations and plant rooms — fire-safe cast resin for malls, offices and residential towers.

Hospitals & transit

Metros, airports and healthcare — continuous duty, low PD, AN/ANAF thermal headroom, zero oil risk.

Data centres & IT

Critical indoor feeders up to 5,000 kVA / 33 kV — enclosed or open CRT with low maintenance footprint.

JAYBEE INDUSTRIES – SINCE 1981 – POWERING INDIA

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