

POWER TRANSFORMERS — 2.5 MVA TO 25 MVA / UP TO 66 KV

Power transformer MVA spectrum & selection guide

Oil-immersed power transformers for grid interfaces, process plants and continuous high loading — CRGO cores, copper / aluminium windings, ONAN / ONAF cooling and OCTC / OLTC tapping. Engineered to IS / IEC 60076 with project impedance, losses and fittings. Jaybee range: 2.5–25 MVA, up to 66 kV.

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1. MVA ratings

Compact PT
2.5 MVA – 5 MVA

Industrial intake and small grid / captive interfaces — compact footprint with project %Uk and OCTC / OLTC options.

Medium PT
5 MVA – 12.5 MVA

Substation and process-plant duty — ONAF headroom, motorised OLTC and capitalised low-loss designs for continuous loading.

Large PT
12.5 MVA – 25 MVA

High-capacity grid and industrial park step-down / step-up up to 66 kV — custom impedance, cooling and protection interfaces.

2. Technical specifications by tier

Parameter	Compact (2.5–5 MVA)	Medium (5–12.5 MVA)	Large (12.5–25 MVA)
Primary / secondary	Up to 33 / 66 kV · LV / MV as specified	Up to 66 kV · project LV / MV	Up to 66 kV · dual LV / bus as specified
Cooling	ONAN / ONAF	ONAN / ONAF	ONAN / ONAF (forced as required)
Efficiency	Low-loss CRGO design · project capitalisation	Optimised no-load & load loss for TOC	High-efficiency · tender capitalisation ready
Impedance	Project %Uk per system study	Custom %Uk / tap range	Custom %Uk for fault & voltage studies
Core	Low-loss CRGO	CRGO multi-step · CAD-optimised	High-grade CRGO · step-lap construction
Windings	Copper or Aluminium	Cu / Al as specified	High-purity Cu / Al · reinforced leads
Tap changing	OCTC / OLTC optional	OLTC + AVR typical	Motorised OLTC · AVR / remote / SCADA
Applications	Industrial intake · Captive	Grid substation · Process plant	Industrial parks · Utility interfaces
Standards	IS / IEC 60076 · type & routine	IS / IEC 60076 · impulse / temp-rise ready	IS / IEC 60076 · CPRI / ERDA pedigree

3. Why choose a power transformer?

Grid & process capacity
Power transformers bridge transmission / sub-transmission voltages to plant or distribution buses at multi-MVA continuous ratings — the backbone of industrial and utility substations.

Custom impedance & losses
Impedance, no-load and load losses are set to your scheme study and capitalisation formula so short-circuit levels and TOC stay within tender and protection limits.

OLTC voltage regulation
On-load tap changers with AVR keep secondary voltage within band under varying grid and load conditions — essential for continuous process and utility interfaces.

Cooling for continuous duty
ONAN / ONAF radiator banks and oil management sized for ambient and loading profiles — thermal headroom for summer peaks and overload cycles without premature ageing.

4. Applications

Grid substations
Utility intake and outgoing feeders up to 66 kV — type-tested designs aligned with IS / IEC practice and project fittings.

Process plants
Continuous industrial loading with custom %Uk, OLTC range and cooling class matched to melt / process duty profiles.

Industrial parks
Shared high-capacity step-down for estates and multi-tenant parks — 2.5–25 MVA class with SCADA-ready monitoring options.

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