

BOOSTER TRANSFORMERS — FEEDER VOLTAGE SUPPORT / SERIES BOOST

Booster transformer spectrum & selection guide

Booster / series transformers for feeder voltage support and specialised utility applications where an in-line boost stage is required. Taps engineered to the system study so end-of-line voltage stays within limits — oil-filled CRGO designs to IS / IEC utility practice.

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1. kVA / boost ratings

Compact booster
Up to 100 kVA boost

Short rural / industrial feeders — modest series boost with fixed or OCTC taps.

Medium booster
100 – 500 kVA boost

Longer DISCOM and campus feeders — study-led boost percentage and continuous / overload duty.

Large booster
500 kVA boost+

Heavy utility schemes — high boost capacity, custom taps and protection interfaces.

2. Technical specifications by tier

Parameter	Compact (≤100 kVA)	Medium (100–500 kVA)	Large (500 kVA+)
Primary / secondary	Series boost · line voltage class	Series / feeder boost as studied	Project series boost arrangement
Cooling	ONAN	ONAN / ONAF	ONAN / ONAF
Efficiency	Booster-duty low loss	Continuous feeder efficiency	Custom losses per utility spec
Impedance	Series %Uk per study	Custom series impedance	Study-led Z · protection coordinated
Core	Low-loss CRGO	CRGO	High-grade CRGO
Windings	Series Cu / Al	Cu / Al booster windings	Reinforced Cu series windings
Tap changing	Fixed / OCTC boost taps	OCTC boost range	OCTC / remote as specified
Applications	Short feeder support	Long DISCOM / campus feeders	Heavy utility boost schemes
Standards	IS / IEC utility practice	IS / IEC	IS / IEC · utility witness

3. Why choose a booster transformer?

End-of-line voltage rescue
Long feeders drop voltage under load — a series boost stage lifts receiving-end voltage back into statutory / equipment limits.

Study-led boost taps
Boost percentage and taps follow the load-flow study so you add only the volts you need — avoiding overvoltage at light load.

Utility-special applications
Beyond simple feeders, booster units support specialised utility schemes where an in-line series stage is the cleanest fix.

Protection coordinated
Series impedance and CT / protection interfaces are designed with the feeder relays so boost does not blind or mis-coordinate protection.

4. Applications

Long rural feeders

DISCOM and rural lines where receiving-end voltage sags at peak load need a modest series boost.

Campus feeders

Industrial and institutional campuses with long MV / LV runs and voltage complaints at the far end.

Utility special schemes

Project-specific series boost with custom taps and protection interfaces.

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