ASTERGRID

Three-phase pad-mounted transformers

TECHNICAL REFERENCE | November 2026

2,500 kVA reference configuration

FR3-filled, 34.5 kV / 480 V reference design.

Parameter	Reference value
Rated capacity	2,500 kVA
Primary / secondary voltage	34.5 kV / 480Y/277 V
Phase / frequency	Three-phase / 60 Hz
Winding connection	Dyn1
Winding options	Copper or aluminum
Cooling / insulating fluid	KNAN / FR3
Winding temperature rise	65 K
HV tap adjustment	De-energized; +/-2 x 2.5%, five positions
BIL, HV / LV	150 / 30 kV
Impedance	5.75%
No-load loss	2,200 W at 20 deg C
Load loss	14,000 W at 55 deg C, 100% load
Installation / ambient	Outdoor / -25 deg C to +40 deg C
Design / test standards	IEEE C57.12.00 / C57.12.10 / C57.12.90

Reference configurations are illustrative. Final specifications, certification and drawings are confirmed for your project.