

Collector Step-Up Power Transformer

Prolec GE specializes in transformers for a diverse range of utility, commercial, and industrial applications. Utilizing high-grade materials and advanced technology in design and manufacturing, our transformers ensure years of reliable service. With over 300,000 MVA installed globally in more than 35 countries, Prolec GE possesses the engineering expertise to design, build, and optimize transformer solutions for the power industry. Our commitment extends to renewable energy, manufacturing transformers for onshore and offshore wind energy, as well as solar energy. We prioritize customer input and feedback, tailoring our products to real-world needs by considering performance, features, service levels, efficiency, support procedures, testing, and quality parameters.



Standard features	
Phases	500 MVA triphase
Rating for onshore wind & solar applications	550 kV (1,675 kV BIL)
Rating for offshore wind applications	1,050 kV (275 kV BIL)
High voltage	LTC or DETC
Low noise level NEMA	25 dBA
Standards	ANSI, IEEE, CSA and IEC
Frequency	50 or 60 Hz
Oil	ASTM type I
CORE	External core ground bushing
HV tap changer	De-energized operation
Cooling Class	ONAN, ONAF, ODAF, KNAN, KNAF

**Special accessories for offshore wind application*

OPTIONAL FEATURES

- Cooling fans.
- On load tap changer HV or LV, in tank or external.
- Multi-ratio current transformer.
- Automatic gas preservation systems:
- Insulating fluid.
 - Mineral oil and natural ester for onshore wind & solar application.
 - Mineral oil or synthetic ester for offshore wind application.
- Rapid pressure rise relay:
 - Under oil.
 - In gas space.
- Lighting arresters.
- Side mounted bushings ≤ 34.5 kV.
- Conservator oil system.
- Buchholz relay for conservator.
- Forced oil cooling equipment.
- Provisions only for safety rails.
- Provisions for lighting arresters.
- Schnabel preparation.
- Extra low gas generation during factory tests (over 75% lower than industry standards).

TRANSFORMER TESTING

Each transformer receives all standard commercial tests in accordance with ANSI, IEEE, CSA and IEC, with test reports available by serial number of the transformer:

- Polarity of windings & angular displacement.
- Ratio.
- No-load loss & exciting current.
- Load loss & impedance.
- Lighting impulse (Class II).
- Low-frequency dielectric tests:
 - Applied voltage tests on all windings.
- Insulation power factor (Class II).
- Induced tests.
- Partial discharge in micro volts (Class II).
- Partial discharge in pico coulombs (Class II).
- Dissolved gas analysis (Class I).
- Temperature rise.
- Zero phase sequence.
- Front of wave.
- Switching surge.



OPTIONAL FEATURES

You can trust Prolec GE with every aspect of your transformer solution for accountability and continuity advantages. Your project team coordinates and orchestrates your entire transformer package, including:

- Rigging and mobilizations.
- Transportation.
- Installation.
- Storage preparation.
- Field services.
- Maintenance.
- Training.
- Condition assessment.
- Spare parts.

For more information:
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