

## 24 MONTH GUARANTEE

Our power transformers come with an industry leading 24 month guarantee from dispatch.\*



# POWER TRANSFORMERS

**WE DESIGN, MANUFACTURE AND SUPPLY COLD ROLLED GRAIN ORIENTED STEEL (CRGO), DOUBLE WOUND POWER TRANSFORMERS UP TO 200 MVA.**

Our power transformers are available both liquid filled (typically Oil or Midel) or dry type (Cast Resin).

### SUPPORT AND COMPLIANCE

We support all power transformer projects with a dedicated account manager and expert design engineers to deliver a solution that best suits your needs.

We follow a continuous improvement policy and ensure that our power transformers comply with the highest standards of modern power systems.

All of our transformers are manufactured in accordance with internationally recognized standards (BS, IEC and ANSI) and comply with the EU Eco Design Directive for transformers (where applicable).



“ I wanted to develop a relationship, something that was more than “How do you buy transformers -I can do that with Wilson’s.

MANAGING DIRECTOR ESM POWER LTD

\*Transformers are manufactured in accordance with internationally recognised standards for electrical transformers (BS, IEC and ANSI). Extended warranty times can be provided where required.



## TYPICAL APPLICATIONS

- Step down distribution transformers
- Step up generation transformers
- Wind farm transformers
- Solar PV farm transformers
- Motor starting transformers
- 6 Pulse and 12 Pulse rectifier transformers
- Earthing transformers
- Isolation transformers
- Korndörfer autotransformer starter

## TYPICAL ACCESSORIES

- Oil temperature indicator (OTI)
- Winding temperature indicator (WTI)
- Magnetic oil level gauge (MOG)
- Forced fan cooling
- Marshalling box
- Pressure relief device (PRD)
- AVR relay and control panel
- Bi-directional rollers
- Radiator valves
- Dehydrating breather

## FEATURES & BENEFITS

- SHORT LEAD TIMES
- DEDICATED ACCOUNT MANAGER
- MODERN TECHNOLOGY
- PROVEN QUALITY & RELIABILITY
- ENGINEERING SUPPORT
- CUSTOM SPECIFICATIONS

# POWER TRANSFORMERS TECHNICAL CHARACTERISTICS

<b>Oil or Midel immersed power transformers</b>	Conventional free-breathing, hermetically sealed or with conservator
<b>Manufacturing standards</b>	ANSI, BS, IEC or custom specification
<b>Rated Power</b>	3 MVA up to 200 MVA
<b>Primary Voltages typically</b>	11, 22, 33, 66, 90, 132, 220 kV or custom specification
<b>Secondary Voltages typically</b>	3.3, 6.6, 11, 33, 66, 132 kV or custom specification
<b>Phases</b>	Single and three phase transformers
<b>Tappings</b>	On-load or off-load tap changers
<b>Voltage regulation</b>	Via onload tapchanger (with AVR relay as standard)
<b>Rated frequency</b>	50 or 60 Hz
<b>Vector groups</b>	Dyn11 or any other vector group as per IEC 60076
<b>Temperature rise</b>	60/65C or custom specification
<b>Cooling type</b>	ONAN (oil natural air natural) or other types of cooling such as KNAN (max 33kV) on request
<b>Radiators</b>	Tank mounted cooling radiator panels, separate cooling banks or heat exchangers
<b>HV &amp; LV terminals</b>	Air cable box type (33kV max) or open bushings
<b>Installations</b>	Indoor or Outdoor
<b>Sound level</b>	As per ENATS 35 or NEMA TR1