



# Distribution Transformers

**Wilson e1 - Cost effective eco design compliant distribution transformers.  
The perfect choice for budget sensitive projects.**

We design, manufacture and supply a comprehensive range of cold rolled grain oriented (CRGO), double wound distribution transformers that can be supplied both liquid filled (Oil or Midel) or dry type (Cast Resin).

## QUALITY STANDARDS COMPLIANCE

Committed to continuous improvement, we are following global material, technology and application developments closely, ensuring that our transformers are designed to comply with and satisfy the high demands of modern distribution networks.

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).

## YOUR BENEFITS:

- Modern technology
- Short lead times
- Proven quality and reliability
- Long life cycle with low maintenance
- Guaranteed buy-back for end-of life plant



## 24 MONTH GUARANTEE

**Our Wilson e1 CRGO transformers come with an industry leading 24 month guarantee from dispatch.**

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

FULLY COMPLIANT WITH NEW ECO DESIGN DIRECTIVE 2015 SPECS



SSE Enterprise Contracting



I have worked with Wilson Power Solutions on a number of projects.

I've always found them helpful and particularly value their flexibility with regards to custom requirements.



HV Regional Manager, SSE Enterprise Contracting



[www.wilsonpowersolutions.co.uk](http://www.wilsonpowersolutions.co.uk)

Tel: +44 (0)113 271 7588 Email: [vo@wilsonpowersolutions.co.uk](mailto:vo@wilsonpowersolutions.co.uk)

## DISTRIBUTION TRANSFORMERS TECHNICAL CHARACTERISTICS

<b>Oil or Midel immersed distribution transformers</b>	Conventional free-breathing, hermetically sealed or with conservator
<b>Dry type or cast resin distribution transformers</b>	IP 00 core and coils or enclosure with IP protection
<b>Manufacturing standards</b>	ANSI, BS, IEC or custom specification
<b>Rated Power</b>	315 kVA up to 4 MVA
<b>Primary Voltages typically</b>	3.3, 6.6, 11, 11/6.6 dual, 33 kV
<b>Secondary Voltages typically</b>	280, 340, 400, 415, 433, 480, 690 V or custom specification
<b>Phases</b>	Single and three phase transformers
<b>Tappings</b>	2 x 2.5% (plus and minus) offload tapchanger (other ranges or on load tapchangers on request)
<b>Voltage regulation</b>	Via offload tapchanger (onload tapchanger with AVR relay on request)
<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 ONAF, KNAN, KNAF etc on request
<b>Radiators</b>	Corrugated or bolt on panel radiator tanks
<b>HV &amp; LV terminals</b>	Air cable box type or open bushings on request
<b>Installations</b>	Indoor and/or outdoor
<b>Sound level</b>	As per ENATS 35

### 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

