


Global  
Distribution  
Quality  
Eaton  
Switchgear  
Cooper Power Series  
Transformers  
Knowledge  
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3M  
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Fixed Load Transformers  
Voltage Regulators  
Information



Solar Service  
Manufacturing  
Separable  
Connectors  
Renewables

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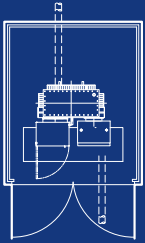


# Product Overview

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

CELEBRATING  
**30**  
YEARS





## Transformers, Switchgear, & Packaged Solutions

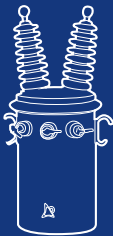
Langley Engineering have a full offering of 6.6kV to 36kV transformers (all compliant with the latest ECO loss directives) and switchgear suitable for DNO, private network, and renewable projects (including anaerobic digestion). We have extensive knowledge within manufacturing, national grid, DNO networks, and distribution, with a keen attention to detail we have been supplying plant into the UK and European markets for 30 years. A brief of our extensive offerings available is (but not limited to): oil (including Mide/FR3) and dry type transformers up to 5MVA, LV & MV Switchgear, packaged substation solutions (GRP and containerised), ring main units, metering units, circuit breakers, and refurbished transformers/switchgear. This is why Langley Engineering is the ideal choice to offer a complete turnkey solution for your projects.



## Padmount Transformers

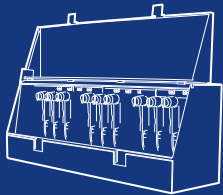
Langley Engineering have been supplying Pad Mounted Transformers within the UK for 30 years. The term "Pad Mounted" transformer is a generic expression for a transformer normally ground "Mounted" on a concrete "Pad" with its own protection and even switching options. The primary use of these is to replace pole mounted transformers in rural areas, or in urban areas where traditional substations are considered excessive.

The HV fusing is replaceable onsite, and they have HV / LV segregation / locking facilities for added safety. Langley Engineering stock all typical consumables and the loadbreak separable connectors.



## Fixed Load Transformers

Langley Engineering have supplied pole mounted transformers for the UK and European electricity networks for over 20 years. These tried and tested units have been installed on UK DNO networks and are approved on latest DNO G81 documents. These oil type transformers can be manufactured in 6.6kV to 33kV MV voltages, and generally 110V, 120V, or 240V LV voltages (although any LV voltage can be catered for). Many of these transformers are used in applications that require small amounts of localised power in remote locations, we can provide units from 0.5kVA to 5kVA. Typical applications are battery charging, lighting, supply for control equipment, and reclosers etc. These can be designed to your specification so please get in touch with your requirements.



## Customised Junction Cabinets

Langley Engineering have supplied Sector Cabinets, Onshore Junction Cabinets, and Customisable Junction Cabinets into the UK market for DNO's and private networks for 30 years. Typical applications include: onshore renewables (disconnection point between the network and generator), branching / jointing point (cable transitions), battery storage, and quarries. The units are also reconfigurable. We deal with all our designs in house, we don't just sell, we engineer.

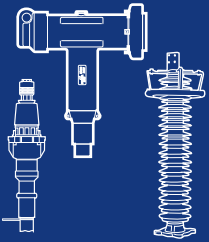
Options (not limited to); the enclosure can be customised to any required size suitable for the application, and can be made from GRP, Painted Mild Steel, Galvanised Steel, and Painted or Unpainted Stainless Steel. Suitable for outdoor installations, IP ratings available up to IP66. A (200 series), C (400 series), D (600 series), & E (700 series) interface junctions (2way, 3 way & 4 way), voltages up to 42kV, current ratings up to 1250A. Flexible installation options. Suitable for up to 1000mm<sup>2</sup> cable. Ability to mechanically interlock with other onsite equipment. Cleating and Earthing provisions. All typical ancillary optional extras including separable connectors, cleats, glands, earthing provisions etc can be supplied to offer a full solution.



## Voltage Regulators

As the UK agent for Eaton's Cooper Power Series product line we have been supplying voltage regulators to DNO's in the UK for 30 years, these regulators are world renowned, Coopers are considered industry leaders in this technology for quality and have proven reliability, user friendly interfaces, and exceptional performance. Voltage regulation (management) is critical to users of electrical equipment and network operators. Applications include; grid connected renewable technologies, data centres, and long distribution lines (voltage drop).

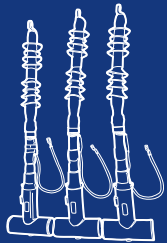
The voltage regulators can be provided in various configurations to suit 10% or even 15% regulation. Available voltages range from 6.6kV to 36kV, current ratings from 50A to 400A, mounting arrangements include; pole, ground, and pad mounted. Cooper's CL-7 multi-phase controller is smart grid compatible, and considered as the best controller on the market. The regulators have the quickest responding step-voltage tap changer on the market.



## Separable Connectors and Surge Arresters

Langley Engineering hold the largest European stock of separable connector component parts, we "kit at order stage". No one in the UK or Europe has a more extensive range from stock, and Langley Engineering are considered experts of this product type, there will be no question we cannot answer or assist with. We can provide (but not limited to) the following separable connectors; loadbreak (upto 35kV / 200A), A interface (200 series, upto 24kV / 250A), B interface (400 series, up to 36kV / 400A), C interface (400 series, upto 42kV / 1250A), D interface (600 series, up to 25kV / 1250A), E interface (up to 36kV / 1250A), and in addition F interface, Pfisterer inner cone.

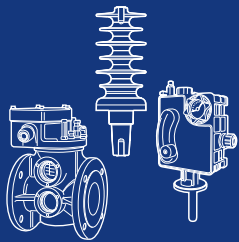
Surge arresters are tireless protectors which protect against transient voltages. The DNOs generally use these devices to protect pole mounted equipment.



## LV & MV Pre-Terminated Cable / Test Leads

As a dedicated service to our customers, we manufacture pre-terminated LV & MV cable leads. Typically, the MV leads are used between a MV transformer (oil or dry types) and its isolator, ring main switch or terminal box. We offer customers a package to include the cable leads, cleats (single and trefoil) and insulated boots should they be required.

We can cater for any requirements for voltages up to 66kV, and cable sizes to 400mm<sup>2</sup>. For many years we have also provided MV test leads to many OEMs throughout Europe. All our jointing is completed inhouse and during a day our jointers make up to 40 MV cable terminations. The terminations can either be screened separable connectors, coldshrink, and heatshrink terminations. Cable lengths range typically from 1 to 20m. We don't only supply to OEMs, we have a large contractor customer base and we can be flexible to supply fully pre-terminated sets, sets with one end only terminated with the other end to be terminated onsite, or a kit of parts including cable, terminations and accessories. We have large stocks of XLPE and EPR cable to ensure we can meet project leadtimes.



## Transformer Accessories

A range of transformer accessories from ABB, including:


- DIN and EN Porcelain Bushings (1kV – 52kV, 250A – 8000A)
- Resin Plug-in / Bolted Bushings (oil and air types to 42kV / 1250A)
- CRS (combined Insulation Bushing)
- OLI – Oil Level Indicators
- WTI / OTI – Winding and Oil Temperature Indicators
- MB103 – Temperature Control Units
- Dehydrating Breathers
- PRD – Pressure Relief Devices
- RIS – Integrated Safety Device
- Transformer Fusing Arrangements
- Buchholz Relays
- Tap Changers



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