

## Delivering high-quality manufactured bespoke smart energy solutions

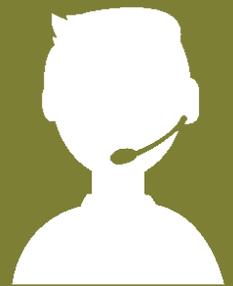
### Products

Below is a summary of the range of reactors and power/distribution transformers and energy services which are all delivered through Powerstar's concept to completion approach.

- ✦ **Amorphous core smart transformers** - The Powerstar SO-LO range of smart transformers are super low loss and surpass the 2021 EU Ecodesign Directive standards set by the European Commission. They are the only amorphous core transformers manufactured in the UK. They also come with integrated online remote monitoring capabilities to relay key performance and operational information.
- ✦ **Cast resin transformers** - Powerstar offers a range of cast resin transformers from 100kVA up to 3MVA, at competitive prices. These transformers have an expected service life of over 20 years and are vibration proof and reliable in extreme conditions in addition to offering increased efficiencies compared to traditional CRGO transformers. These transformers are a low maintenance solution due to the absence of oil.
- ✦ **Load bank reactors** - Used to provide a stable, continuous and variable load to imitate real loads in real time. This means backup systems can be periodically fully tested, ensuring that they meet the original design criteria for efficient power generation. Typically applied in industries such as oil and gas, marine, and healthcare.
- ✦ **Liquid cooled transformers** - Robust transformers which offer a long-life expectancy. Often used in marine and offshore applications and drives and automation industries. These transformers provide low load losses and a large choice of styles, ratings and types.
- ✦ **Dry type transformers** - Suitable for both indoor and outdoor applications and widely used in data centres and other critical applications. These transformers are widely used in critical applications due to their lack of oil usage which contributes to low flammability.
- ✦ **Network Rail transformers** - Powerstar has designed and supplied transformers with minimal inrush currents to stop nuisance tripping of strategic control equipment, DC traction, light rail, tram and main line equipment.
- ✦ **Transformers for specialist applications** - As experienced manufacturers Powerstar has the ability to design, build and supply transformers to a required specification. This includes transformers for hazardous environments and purpose built to size or power.



Powerstar's transformer range has been utilised across a wide variety of applications including industrial, commercial and utility applications, and is fully supported by a range of services, to deliver complete peace of mind.



Contact Powerstar today on  
**0333 230 1327**  
to discover how your  
business can benefit from  
Powerstar transformers.

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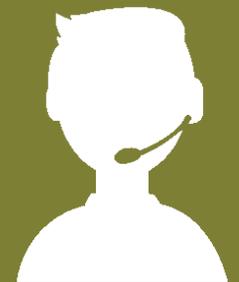
### Services

Powerstar offers a wide range of services to support our customer's needs and help to overcome their challenges. With full-service solutions from design to delivery, and beyond, we provide ongoing service and support to ensure everyone gets the most out of their energy solutions and services.

- ✦ **Maintenance** - To ensure equipment is running safely and effectively. Prevention is better than cure, so it is important to uphold regular maintenance to keep equipment operating optimally.
- ✦ **Annual inspections** - For electrical installations that deteriorate with age and use. To discover potential faults that could occur through trend analysis of cooling medium samples or insulation degradation to provide peace of mind and ensure good working order.
- ✦ **Energy efficiency consultations** - Free of charge and with no obligation to enable customers to discover where efficiencies can be made on HV or LV supply's through a variety of proven technologies, services and upgrades.
- ✦ **Powerstar services** - Offer a full range of solutions developed to meet the needs and specifications of the customer on an ongoing basis.
- ✦ **Refurbishment, repair and rewinding** - Of existing transformers to provide another working life-cycle where full replacement is not necessary or to extend critical asset lifespan.
- ✦ **Site services** - Including upgrades, protection services and on-site repairs.
- ✦ **Full after sales support** - With 24/7 availability for any issues or concerns that may arise.
- ✦ **Project management** - Delivered through a concept-to-completion approach. Working meticulously through the evaluation, installation, and testing process to provide a complete and seamless solution to each and every customer.
- ✦ **Equipment buyback** - To provide an easy and cost-effective method for disposing of old, unwanted equipment in an environmentally responsible manner, and you can save on new equipment in the process. This includes guaranteed buyback on Powerstar transformers.



All of the services which Powerstar provide are designed to be flexible and meet the individual requirements and changing needs of our customers, delivered by our experienced team of engineers to provide a fully supported solution.



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