



MANAGE YOUR ENERGY EFFECTIVELY WITH REMOTE MONITORING FOR AMORPHOUS CORE TRANSFORMERS

WHAT IS POWERSTAR SO-LO?

Powerstar **SO-LO** is a range of super low loss amorphous core transformers from Powerstar, the UK's leading energy efficiency brand. They are the only amorphous core transformers designed and manufactured in the UK, and provide a cost-effective way of reducing your energy consumption by upgrading your HV infrastructure.

Replacing your transformer with a low loss amorphous core could reduce core losses by up to 75% when compared to traditional CRGO transformers and meet and surpass the 2021 EU Ecodesign Directive standards set by European Commission.

A SMART APPROACH TO TRANSFORMERS: REMOTE MONITORING

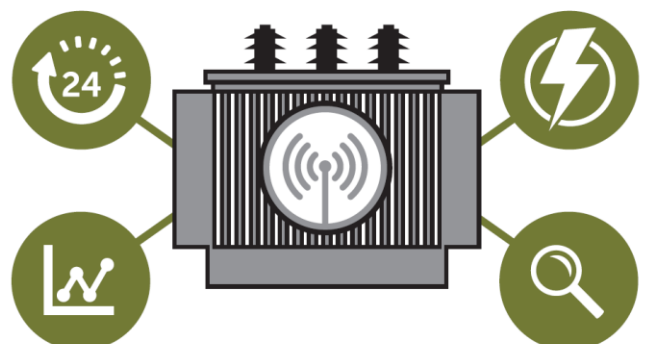
In a rapidly advancing technological world that is charging towards the next industrial revolution centred around connectivity, visibility of assets, and [Industry 4.0](#), why should your transformer be left in the dark?

Transformers are critical infrastructure for many companies, yet they are not connected and online. Because of this, their health, performance, and efficiency are typically unknown or reliant on manual inspections of antiquated gauges/meters.

However, remote monitoring for Powerstar **SO-LO** allows 24/7 visibility to help you better understand how your transformers are performing, including where efficiencies can be made to obtain the best return on investment.

Powerstar **SO-LO** remote monitoring is developed with Industry 4.0 in mind, which is defined by Mckinsey and Company as the next phase in the digitalisation of the manufacturing sector, and so provides comprehensive data and intelligence to deliver useful grid information, conditional performance data, and energy efficiency reports. It has been designed to complement maintenance activities and allows for the remote monitoring of core temperatures, winding currents, oil temperature, and, when integrated, the performance of voltage management functionality.

Join the smart revolution and allow Powerstar **SO-LO** remote monitoring to bring your transformer in to the 21st Century, providing added value through insights that enable you to make informed decisions and enhance your operations. Contact us today to discover how you can benefit from Powerstar **SO-LO** remote monitoring.



Want to learn more about Industry 4.0?

Visit powerstar.com/industry-4-0/

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THE BENEFITS OF REMOTE MONITORING

The remote monitoring capabilities of Powerstar SO-LO transformers allows for greater visibility and understanding of how the equipment is operating, which enables issues to be identified before an event occurs whilst informing decisions on energy use and maintenance activities by providing comprehensive data on:

- **Online oil analysis** provides real-time critical information about the condition of the oil, reducing maintenance & inspection costs.
- **Volts on each phase** to give engineers visibility of the voltage on each phase.
- **Phase to phase metrics** to provide further insights of energy use to on-site engineers.
- **Amps on each phase** to provide details on the current load of each phase.
- **Real power measured in kW per phase** for greater visibility and understanding of the site's consumption for identifying inefficiencies.
- **Power factor** to allow engineers to identify poor power factor and areas for improvement.
- **Temperature of core transformer** for safety and to identify any issues caused if the transformer is running hot.
- **Harmonic distortion** to allow tracking of harmonics in order to prevent tripping of equipment, overheating or cables, damage to switchgear, and excessive energy use.
- **Total system kVA** to provide insights into energy that is being paid for, but not utilised.
- **Total system kWh** to show total energy consumption of the site, to enable areas of further optimisation to be identified and allow reductions to be made.
- **GPS location** to allow for the quick and easy identification of assets on larger sites.

As with all Powerstar products, functionality is built bespoke to the requirement of each individual customer to provide maximum value.



In addition, SO-LO remote monitoring utilises a simple and intuitive user interface that provides alerts and warnings, either via text or email, with a password protected remote system accessible from anywhere with an internet connection.



Contact Powerstar today on
01142 576 200
to discover how your business can benefit from Powerstar SO-LO remote monitoring.