



UK DECLARATION OF CONFORMITY

For the **OPTIDRIVE ECO** product range

Inverterk Drives Ltd
Offa's Dyke Business Park
Welshpool, Powys. SY21 8JF, United Kingdom

hereby declares, under our sole responsibility, that the above-named product range has been designed and manufactured in accordance with the following UK harmonised standards:

Safety:

- BSEN 61800-5-1:2007 & A11:2021 Adjustable speed electrical power drive systems.
Part 5-1: Safety requirements. Electrical, thermal and energy (IEC 61800-5-1:2007).
- BSEN 61800-5-2:2017 [as relevant] Adjustable speed electrical power drive systems.
Part 5-2: Safety requirements – Functional (IEC 61800-5-2:2016).

EMC:

- BSEN 61800-3:2018 Adjustable speed electrical power drive systems.
Part 3: EMC requirements and specific test methods (IEC 61800-3:2017).
- BSEN 61000-3-12:2011 Electromagnetic Compatibility (EMC).
Part 3-12: Limits – Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16A and < 75A per phase (IEC 61000-3-12:2011).

Eco-design:

- BSEN 61800-9-2:2017 Adjustable speed electrical power drive systems.
Part 9-2: Ecodesign for power drive systems, motor starters, power electronics and their driven applications – Energy efficiency indicators for power drive systems and motor starters (IEC 61800-9-2:2017).

RoHS:

- BSEN 63000:2018 Tech documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (IEC 63000:2016).

following provision of the council directives:

- Electromagnetic Compatibility Regulations 2016 (1091)
- Supply of Machinery (Safety) Regulations 2008 (1597)
- Electrical Equipment (Safety) Regulations 2016 (1101)
- The Ecodesign for Energy-Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019 (539) & 2021 (745)
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (3032)

Supplementary Notes:

Inverterk's HVAC Eco VSDs fulfil the requirements of EN 61000-3-12 without the need for external line reactors according to the THC values specified in Table 3 for values of R_{sce} > 185.

**UK
CA**

Only the "Safe Torque Off" (STO) drive function may be used as a machine safety function. No other functions of the drive can be used to carry out a safety function.

The CE marking and conformity are only valid if the product has been installed in a drive system in accordance with the product User Guide delivered with the product.

DM Jones, R&D Director, Welshpool, 21.03.22