

EU 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 European harmonised standards:

Safety:

EN 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).
EN 61800-5-2:2017 [as relevant]	Adjustable speed electrical power drive systems. Part 5-2: Safety requirements – Functional (IEC 61800-5-2:2016).
EN ISO 13849-1:2015 [as relevant]	Safety of machinery — Safety related parts of control systems Part 1: General principles for design (ISO 13849-1:2015)

EMC:

EN 61800-3:2018	Adjustable speed electrical power drive systems. Part 3: EMC requirements and specific test methods (IEC 61800-3:2017).
EN 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:

EN 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).
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RoHS:

EN 63000:2018	Tech documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (IEC 63000:2016).
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following provision of the council directives:

- 2014/30/EU (EMC)
- 2014/35/EU (LVD)
- 2023/1230 (EU) Regulation (Machinery)
- 2009/125/EC (Eco-design) & Regulations (EU) 2019/1781 & 2021/341
- 2011/65/EU (RoHS) modified by delegated directive 2015/863

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 $R_{sc} > 185$.



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, 29.11.23

Inverterk European Authorised Representative:

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