



# 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).

### 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).

### 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).

### following provision of the council directives:

- 2014/30/EU (EMC)
- 2014/35/EU (LVD)
- 2006/42/EC (Machinery Directive)
- 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<sub>sce</sub> > 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, 21.03.22

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