



# EU DECLARATION OF CONFORMITY

## For the **OPTIDRIVE COOLVERT** 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<br>+A11:2021       | Adjustable speed electrical power drive systems.<br>Part 5-1: Safety requirements. Electrical, thermal and energy (IEC 61800-5-1:2007). |
| EN 61800-5-2:2017<br>[as relevant]   | Adjustable speed electrical power drive systems.<br>Part 5-2: Safety requirements – Functional (IEC 61800-5-2:2016).                    |
| EN ISO 13849-1:2015<br>[as relevant] | Safety of machinery — Safety related parts of control systems<br>Part 1: General principles for design (ISO 13849-1:2015)               |

### EMC:

|                                   |   |
|-----------------------------------|---|
| EN IEC 61800-3:2018               | Adjustable speed electrical power drive systems.<br>Part 3: EMC requirements and specific test methods (IEC 61800-3:2017).  |
| EN 61000-3-12:2011                | Electromagnetic Compatibility (EMC).<br>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).                        |
| EN IEC 61000-3-2:2019<br>+A1:2021 | Electromagnetic Compatibility (EMC).<br>Limits for harmonic current emissions (equipment input current ≤16 A per phase).<br>NOTE: Compliance only for the 230V Single Phase Input models and specifically when the input current ≤16 A per phase. |

### Eco-design:

|                   |  |
|-------------------|--|
| EN 61800-9-2:2017 | Adjustable speed electrical power drive systems.<br>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). |
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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 Optidrive Coolvert 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  $R_{sce} > 185$ .



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

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