

Declaration of Conformity

Turbo Energy SL declares that the network connection inverters of the series:

THREE PHASE HYBRID INVERTER SERIES 48V 10.0

They are designed and tested in accordance with the standards set out in the Electromagnetic Compatibility Directive (EMC) and the Council of the European Union's Low Voltage Directive and comply with the limit values required therein, as well as in the Royal Decrees.

Directive 2014/30/EU
IEC 61000-6-1:2016
IEC 61000-6-3:2006+AMD1:2010
IEC 61000-3-11:2017
IEC 61000-3-12:2011

Directive 2014/35/EU
EN 62109-1:2010
EN 62109-2:2011

Royal Decree
RD1699:2011
RD413:2014
UNE 206006 IN:2011
UNE 206007-1 IN:2013

It is CE marked by virtue of compliance with the safety requirements for persons and property required by the above-mentioned Community Directives.

It also states that the above-mentioned network investors:

- They have an internal interconnect switch for automatic disconnection.
- They have internal protection of minimum and maximum voltage and network frequency, according to the following table:

| Parameter | Protection threshold | Maximum acting time |
|---|----------------------|---------------------|
| Overvoltage phase 1 | Un + 10% | 1,5 s |
| Overvoltage phase 2 | Un + 15% | 0,2 s |
| Minimum voltage | Un + 15% | 1,5 s |
| Maximum frequency | 51 Hz | 0,5 s |
| Minimum frequency | 48 Hz | 3,0 s |
| Un = 230 V _{AC} (phase-neutro) | | |

- For electrical systems located both inside and outside the peninsula, the above values will be those included in the corresponding operating procedures.
- In case of action and once the normal conditions of supply of the mains are restored, the inverter will connect to the mains automatically, synchronizing with the mains.
- It has protection against island operation, complying with UNE EN 50438, IEC 62116 and UNE 206006:2011 IN.
- Earth-isolation monitor installed on the DC side and a residual current control on the AC side
- The joint action of internal protections provides a level of safety equivalent to that of a galvanic isolation transformer.
- They have a harmonic distortion coefficient of less than 3%, complying with current regulations.
- The software to adjust the voltage and frequency protections is not accessible to the user.

SIGNED:

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