

## Declaration of Conformity

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

### HYBRID INVERTER SERIES 48V 5.0

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	Directive 2014/35/EU	Royal Decree
IEC 61000-6-1:2016	EN 62109-1:2010	RD1699:2011
IEC 61000-6-3:2006+AMD1:2010	EN 62109-2:2011	UNE 206006 IN:2011
IEC 61000-3-11:2017		UNE 206007-1 IN:2013
IEC 61000-3-12:2011		

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 <sub>AC</sub> (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:

**TURBO ENERGY S.L.**

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