



Testing of Solar iBoost

Solar iBoost has been tested extensively both in house and by professionals at highly reputable independent test houses, Intertek and BTL. The tests undertaken relate to electrical safety, electromagnetic compatibility and compliance with the EU directives and harmonised standards listed below.

Low Voltage Directive (2006/95/EC)

This directive governs electrical safety (LVD). Conformity was carried out in accordance with the following harmonised standards:

EN60730-2-7 referencing EN60730-1 - Tested by Intertek

This standard governs safety and EMC requirements for electrical household controls, specifically timers and time switches. Testing covers amongst others the following aspects: protection against electrical shock, provision for protective earthing, terminals and terminations, constructional requirements, moisture and dust resistance, electrical strength, insulation resistance, mechanical strength, creepage and clearances, resistance to heat, fire and tracking, resistance to corrosion, EMC emissions, EMC immunity and abnormal operation

EN 60950-1:2006 + A1:2010 - Tested by BTL

This standard governs safety for information technology equipment

Electromagnetic Compatibility Directive (2004/108/EC)

This directive governs Electromagnetic Compatibility (EMC). Conformity was carried out in accordance with the following harmonised standard:

EN 301 489-3 v1.4.1 referencing EN 301 489-1 v1.9.2 and EN5022 2006 + A1 2007 - Tested by Intertek

This standard governs the testing of Electro Magnetic Compatibility standards for conducted emissions for radio equipment, specifically short range devices on frequencies between 9 kHz and 40 GHz. Tests include analysis of: harmonics, flicker, radiated emissions, conducted rf immunity, voltage interrupts as well as other features.

Radio and Telecommunications Terminal Equipment Directive (1999/5/EC)

This directive governs radio and telecommunication equipment (R&TTE). Conformity was carried out in accordance with the following harmonised standard:

EN 300 220-2 v2.1.2 2007 referencing EN 300 220-1 v2.1.1 2006 - Tested by BTL

This standard governs the testing for Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency

Restriction of Hazardous Substances Directive (2011/65/EU)

The product has been checked to be in conformance with the RoHS directive

Accelerated Life Testing

The product has successfully withstood a 5 year accelerated service life test in an environmental chamber.

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