



Testing of Solar iBoost+

Solar iBoost+ has been tested extensively both in house and by 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 (Report No: 102202186LHD-001a and 102151932LHD-001c)

This standard governs safety and EMC requirements for automated 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.

EN60335-1 - Tested by Intertek Report No: 102202186LHD-001b)

This standard governs safety of household and similar electrical appliances.

EN 60950-1 - Tested by BTL (Report No: NEI-ETSE-1-0907C092)

This standard governs safety for information technology equipment.

Electromagnetic Compatibility Directive (2014/30/EU)

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

EN 301 489-3 referencing EN 301 489-1 - Tested by Intertek (Report No: 102151932LHD-001b)

These standards govern the testing of Electro Magnetic Compatibility for radio equipment, specifically short range devices on frequencies between 9 kHz and 40 GHz. Tests include analysis of conducted emissions, radiated emissions, harmonics, flicker and other essential tests.

EN 55014-1 and EN 55014-2 - Tested by Intertek (Report No: 102151932LHD-001a)

These standards govern the testing of Electro Magnetic Compatibility for household appliances and similar apparatus. Tests include analysis of conducted emissions, radiated emissions, discontinuous emissions, harmonics and flicker.

Radio Equipment Directive (2014/53/EU)

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

EN 300 220-2 referencing EN 300 220-1 - Tested by BTL (Report No: NEI-ETSP-1-0907C092)

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 > 5 years accelerated service life test in an environmental chamber.

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