

European Market Standards



Since 2011, manufacturers have been allowed to use only CE-certified products. It stands for compliance with EU Regulation 765/2008 and confirms that the product meets the applicable requirements laid down in the Community harmonization legislation on its installation.

The CE mark means that the manufacturer takes responsibility for the compliance of a product with all applicable European health, safety, performance and environmental requirements. CE stands for "Conformité Européenne", the French for European conformity.



RoHS means "Restriction of Certain Hazardous Substances" in the "Hazardous Substances Directive" in electrical and electronic equipment. This restriction is anchored in EU Directive 2011/65 / EU. If a product is RoHS-certified, this confirms that the proportion of hazardous, or difficult to dispose substances is limited to the maximum allowed. Examples of such substances are lead, mercury, hexavalent chromium and cadmium. Manufacturers of electronic devices are required to use more environmentally-friendly alternatives, e.g. unleaded soldering.



On 5th, December, 2019, the European Commission officially announced the new ErP Regulation (EU) 2019/2020 and Energy Efficiency Labelling Regulation (EU) 2019/2015 for lighting products, which will replace the current ErP Regulation (EC) No 244/2009, (EC)) No 245/2009, (EU) No 1194/2012 and Energy Efficiency Labeling Regulation (EU) No 874/2012.

The main differences between the new version of the energy efficiency label EU 2019/2015 directive and the old version:

- The calculation of energy efficiency rating is modified from EEI index to $\eta_{TM}(lm/W)$, which is more intuitive and easy to understand;
- The division of energy efficiency grades are all expressed in English letters A-G, it is Class A to Class G.;
- Increased higher energy efficiency requirements, for example, Class A++ of the original regulations is only equivalent to Class E of the new regulations.

The diagram illustrates the layout of an Energy label with the following components:

- (I)** SUPPLIER'S NAME
- (II)** MODEL IDENTIFIER
- (III)** Scale of energy efficiency classes from A to G. The sample label shows class **B**.
- (IV)** Energy consumption: **WXYZ kWh/1000h**
- (V)** QR-code
- (VI)** The energy efficiency class in accordance with Annex II.
- (VII)** The number of this Regulation that is 2019/2015.