

# WEEE & RoHS instruction

The WEEE directive and RoHS directive were announced simultaneously in the Office Journal of the European Union (EU) in February 2003.

The WEEE directive is subject to Article 175 of the EC Treaty, whereby individual member states can, on the grounds of domestic conditions or other reasons, establish a domestic law which applies stricter standards than the directive.

The RoHS directive is subject to Article 95 of the EC Treaty, which means that the designated hazardous substances and maximum permitted concentrations (threshold values), etc., must be the same in all member countries.

Note: in domestic legislation to incorporate the RoHS directive, there are no differences between the member countries in the designated hazardous substances and maximum permitted concentrations, etc., but differences do arise between member countries in the domestic legislation incorporating the WEEE directive.

【Eleven product groups covered by the WEEE and RoHS directives】  
(Applicable to products that are used in AC 1000V and DC 1500V or less of the rated voltage.)

- ① Large household appliances.

② Small household appliances.

③ IT and telecommunications equipment.

④ Consumer equipment.

⑤ Lighting equipment.

⑥ power tools.

⑦ Toys, leisure and sports equipment.

⑧ Medical devices.

⑨ Monitoring and control instruments including industrial monitoring and control instruments.

⑩ Automatic dispensers.

⑪ Not included in the above categories of electrical and electronic equipment.

☆Electric wires and cables and harnesses are not included in the above product groups, but since they are used in the manufacture of products, the directives must be applied.

RoHS

## 1. RoHS instruction

Regulation of hazardous substances enacted by the European Union (EU) on July 1, 2006.  
(Restriction of the Use of Certain Hazardous Substances in Electronic and Electronic Equipment)

The directive prohibits the use of the designated hazardous substances in electric and electronic appliances so as to prevent effects on humans and the environment when such appliances are disposed of through landfill or incineration.

## 2. Revised RoHS (2011/65/EU RoHS2) Directive

RoHS Directive (2002/95 / EC known as "RoHS1"), was the place of the revised RoHS Directive(2011/65 / EU called "RoHS2") from 3 January ,2013. Outline is as follows.

(1)Expansion of target product  
Category 8(medical equipment) and category 9 (monitoring and control equipment) which have been exempted in RoHS1 become Applies,and "Other electrical and electronic equipment" including the wires and cables has been added as a new category 11.

(2)Additional restricted substances, review study  
Although there were no newly added controlled substances in accordance with the revision, study of priority substances to be banned in the European Commission had been promoted.  
In the Official Gazette on June 4 , 2015 (EU) 2015/863 is promulgated, 4 substance has been added.  
DEHP (Bis(2-ethylhexyl)phthalate), BBP (Butyl benzyl phthalate), DBP (Dibutyl phthalate), DIBP (Diisobutyl phthalate): 0.1wt% (1,000ppm).  
July 22, 2019 regulations start has been specified.

(3) CE marking  
Mark display when fit in RoHS1 but was not sought, in RoHS2, if you want to market directly to EU, CE marking has been introduced as a certificate of conformity. Thus in order to CE marking in electrical and electronic equipment, it is required to comply with the Directive RoHS2 with such as Machinery, Low voltage, EMC Directive.  
RoHS1 in We've said to have adapted if possible prove the non-inclusion of prohibited substances, in RoHS2, will need to be addressed along the EN50581. Creation and storage of declaration of RoHS 2 and technical documents, we are obliged and evaluation management of supplier.

## 【Substances the use of which is forbidden by the RoHS directive and threshold values】

Restricted substance	Threshold	Remarks
①Lead ( Pb )	0.1wt% (1,000ppm) or less	
②Mercury ( Hg )	0.1wt% (1,000ppm) or less	
③Cadmium( Cd )	0.01wt% (100ppm) or less	
④Hexavalent chromium ( Cr <sup>6+</sup> )	0.1wt% (1,000ppm) or less	
⑤PBB (Polybrominated biphenyls)	0.1wt% (1,000ppm) or less	
⑥PBDE (Polybrominated diphenyl ethers)	0.1wt% (1,000ppm) or less	
⑦DEHP (Bis(2-ethylhexyl)phthalate)	0.1wt% (1,000ppm) or less	Add new material
⑧BBP (Butyl benzyl phthalate)	0.1wt% (1,000ppm) or less	Add new material
⑨DBP (Dibutyl phthalate)	0.1wt% (1,000ppm) or less	Add new material
⑩DIBP (Diisobutyl phthalate)	0.1wt% (1,000ppm) or less	Add new material

However, the application of four the phthalic acid of CE marking, it depends on the category, category 8 (medical equipment) and category 9 (monitoring and control equipment) are July 22, 2021, otherwise July 22, 2019

## 3. WEEE instruction

(Weste Electronic and Electronic Equipment)

To reduce the volume of waste in the form of electronic and electric appliances, there is a need to promote re-use and recycling with the aim of reducing the final disposal volume.

## 4. Regarding the application of the RoHS directive to our products.

Our electric wires and cables adapt to RoHS directive (2002/95/EC).  
We display "LF" meaning lead-free in one of the component prohibition materials.  
※"LFV" is printed on some products.  
Exemptions, declaration of RoHS, the technical document management of revised RoHS directive (2011/65/EU) support than products on January 3, 2013.