

Technical Requirement for Environmental Products

The Certificable Technical Requirement for Environmental Labelling Products

Energy-saving electronic ballasts

HJBZ 15.3—1997

1 Scope

This technical requirement specifies definition, basic requirements, technical contents and test method for environmental labelling products of energy-saving electronic ballasts.

This technical requirement shall apply to independent type electronic ballast.

2 Standards cited

Provisions in the following standards are cited in this technical requirement, and therefore form the provisions in this standard. They have the same effectiveness as the technical requirement itself.

GB 15143 — 1994 A.C.-supplied electronic ballasts for tubular fluorescent lamps-General & safety requirements

GB/T 15144 — 1994 A.C.-supplied electronic ballasts for tubular fluorescent lamps-Performance requirements

In case of the criteria above are revised, the latest version should be applied.

3 Definition

“Independent type electronic ballast” means a kind of electronic ballast which may attach to outside of the lamp with no need for any extra case.

4 Basic requirements

4.1 Quality of products should conform with requirements specified in GB 15143-1994, GB/T 15144-1994.

4.2 Pollutant emission of the company should be obliged to conform with pollutant emission standards nationally or locally.

5 Technical contents

5.1 Line power factor of independent type electronic ballast should be $\lambda \geq 0.95$.

5.2 Harmonic content in supply current of the independent type electronic ballast should be Lower than the liminal values specified in GB/T 15144—1994, see annex A.

5.3 Life of independent type electronic ballast should be no less than 10000h.

6 Test

Method specified in 5.6, 5.9 in GB/T 15144—1994 should be adopted for measuring line power factor, total harmonic content of products, respectively.

Approved by SEPA on 3/14/1997

Entered into force on 3/14/1997

Annotations:

This technical requirement has been prepared by Department of Science, Technology and Standards of State Environment Protection Administration.

The State Environment Protection Administration keeps the right of interpretation for this technical requirement.

Annex A (annex of the standard)

Harmonic content of products

Indexes listed in this annex are some values of high quality electronic ballast products. See relevant standards for more details.

In case of the indexes listed in this annex do not accord with those graded indexes in the product standard, priority should be given to the product standard.

For harmonic content in supply current of the products, see table A1.

Table A1 Harmonic content in supply current of the product

Harmonic n	Maximum value (express in percentage of ballast fundamental current %)	
	Grade L	Grade H
2	5	5
3	30 λ	37 λ
5	7	No limitation
7	4	
9	3	
11 ≤ n ≤ 39	2	