



PERMANENT DOCUMENT

EPRS 004

PROPOSED UPDATES FROM ANDY HUGHES MARKED AS TRACK CHANGES

ENEC+ Requirement Sheet 004

**Self-ballasted LED lamps for general lighting services
with supply voltage > 50V – Performance requirements**

Application of EN 62612:2013 + A2:2018

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Application of EN 62612:2013 +A2:2018 for the granting of the ENEC+ Mark

Table of change

Revision	Reason to change
January 2025	Main reference standard updated from IEC 62612:2013 to EN 62612:2013 + A2:2018 throughout this document.

1 Introduction

This Permanent Document details the application of EN 62612 with respect to the specifications use for the granting of the ENEC+ Mark for Self-ballasted LED lamps for general lighting services with supply voltages >50V.

Because of the very rapid development of LED technology and the long test times specified for some requirements of EN 62612, variations from the precise test conditions are specified by this PD. This is to allow the practical application of the specification for third party certification, under the scope of the ENEC+ Mark. This PD details the test and certification variations that may be applied.

The prescribed variations are justified on the basis that the use of EN 62612 for ENEC+ certification is always accompanied with a system of on-going quality assurance applied by the manufacturer and supervised by the CB.

2 Variations

The following variations, compared to EN 62612 shall be applied:

Variation 1 – Clause 7.1 General Test Conditions

The scope of the ENEC+ Scheme with respect to this standard is limited to the verification of initial performance data claimed by the manufacturer and endurance testing to demonstrate robust construction. Life testing to verify maintained performance data is not required. It is expected that requirements for maintained performance verification will be added under the scope of this scheme as practical techniques for deriving these characteristics become better defined and evolved.

Consequently the requirements of the standard are to be applied as summarised by Table A:

Table A – Application of EN 62612 (Limited to Initial Performance Data and Endurance Tests)

Clause	Requirement	Notes for application
5	General requirements for marking	Not required for characteristics and ratings associated with maintained performance – E.g. Lumen maintenance code, failure fraction, initial and maintained colour variation category, etc.
6	Dimensions	No variation – Initial data only
7	Test conditions	To be amended according to Variation 1 of this PD
8	Lamp input	No variation – Initial data only
9	Light output	No variation – Initial data only
10	Colour nomenclature, variation and rendering	Limited to verification of initial performance data only
11	Lamp life	To be applied as detailed for 11.2, 11.3
11.2	Lumen maintenance	Not applicable – No requirement
11.3	Endurance tests:	All tests to be applied as detailed below:
11.3.2	Temp cycling test	No variation
11.3.3	Supply switching test	No variation
11.3.4	Accelerated operation life test	No variation
12	Verification	Sample size to be amended according to Variation 2 of this PD

Variation 2 – Test Sample Sizes

For the purposes of type testing under the scope of the ENEC+ certification scheme the test sample sizes detailed by Table -6 may be reduced to ONE sample in all cases.

Note: Type testing conducted for the purpose of this ENEC+ Scheme is to demonstrate capability of conformity for the product design. The type test does not justify the control of possible production and manufacturing batch variations. For the ENEC scheme these aspects are controlled by separate quality system requirements and procedures applied to the manufacturing process.

3 Licence requirement information text

The following requirement information shall be stated on the ENEC+ licence.

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Based on EN 62612:2013 + A2:2018

100 Initial acceptance of a MPL

In the application of clause 7.2 from OD ENEC 312, only photometric measurements will be performed on the same sample by the TL in order to monitor the outcome. Endurance tests will be assessed by the CB at the MPL testing facility.

200 Additional data to be shown on the ENEC+ licence

In addition to the common data for all EPRS listed in the document OD ENEC 321, the ENEC+ Licence for this EPRS shall contain at least the following data:

- (r 11) Supply Voltage
- (r 12) Input Power
- (r 13) Luminous Flux
- (r 14) Colour temperature (CCT)
- (r 15) Colour rendering index (CRI)
- (r 16) Luminous Efficacy
- (r 17) Lamp Type/Rating
- (r 18) Luminaire (Type A, B, C)
- (r 19) Ambient Temperature Rating (tq)