

JYSK 4005

Edition 14 - 2025-03

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# **JYSK STANDARD**

# **Electrical products**

## Scope

This standard applies to all electrical products supplied to JYSK.

## **Change-log**

Section	Changes
2.5 Added reference to the new Ecodesign Regulation.	



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## 1 General requirements

## 1.1 Instructions and warnings

Suppliers must ensure that suitable instructions and necessary warnings follow the electrical products in accordance with <u>JYSK General Requirements</u> and legislative requirements.

Checklist (As applicable)			
Traceability and identification			
Product name			
<ul> <li>JYSK product number</li> </ul>	JYSK product number		
Included components shown as illustrations.			
Description of supply source			
<ul> <li>Battery driven: Amount and type of bat</li> </ul>	tery.		
<ul> <li>Mains driven: Repeat of transformer te</li> </ul>	chnical information.		
Mandatory warnings (as applicable - including	ng but not limited to):		
<ul> <li>Read instructions before use and keep</li> </ul>	for further reference.		
<ul> <li>"Do not connect the chain to the supply</li> </ul>	while it is in the packaging"		
("chain" may be replaced by "product")			
<ul><li>"The lamps are not replaceable."</li></ul>			
<ul> <li>Indication that the control gear relies u</li> </ul>	pon the luminaire enclosure for protection against ac	cidental contact with live parts.	
(To comply with <b>EN 61347-1 – 7.1 h</b> )	)		
<ul> <li>Only use the adapter with the included</li> </ul>	luminaire(s).		
(To comply with <b>EN 61347-1 – 7.1 j</b> ))			
<ul> <li>Only use luminaire with the included ad</li> </ul>	apter.		
Other warnings required to comply with har	monized standards or secure safe use.		
Assembly- and user instructions			
Maintenance instructions			
For products containing/using batteries:			
1. Type and chemical system of the batte	ry		
2. Instructions for safe removal (and repl	acement) to allow for proper disposal.		
Combined tout for both WEEF and both	Foldable WEEE and battery collection text for	JYSK 10192	
Combined text for both WEEE and battery	battery compartments	<u> </u>	
collection text (may be stated senarately)			

## 1.2 Direct access of live parts

collection text (may be stated separately)

Electrical products must not allow direct access of live parts. (i.e. no direct access to electrical circuitry such as poles on electrical switches, resistors or solders).

WEEE and battery collection text only

## **Exceptions:**

- Terminals in battery compartments.
- Unconnected connecters.

## 1.3 AC power plugs for mains connection

For Class II components plug types according to  $\underline{Table\ 1}$  must be used:

Type of product	Plug type
Indoor (general)	CEE 7/16 Alternative II plug (Europlug)
Outdoor (general)	CEE 7/17 unearthed plug
Products for UK and Ireland	According to <b>BS 1363</b>
Products for Switzerland	According to <b>SN 441011</b>
Froducts for Switzerland	Note: Different plugs for indoor (IP20) and outdoor (IP55)
IEC plug overview	<u>IEC</u>

Table 1 - Plug types



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## 1.4 Products containing/using batteries

Products using replaceable batteries must use one of the battery types listed in <u>Table 2</u>.

Battery type		IEC Name
AA	Alkaline - 1,5V	LR6
AA	Ni-MH - 1,2V	HR6
AAA	Alkaline - 1,5V	LR03
AAA	Ni-MH - 1,2V	HR03
Coin cell	Lithium - 3,0V	CR2032
For solar lamps including batteries (Only if full-size AA or AAA is not practicable):  • 2/3 AA • 2/3 AAA	Ni-MH - 1,2V	-

Table 2 - Battery types

Unless approved by  $\underline{JYSK\ C\&Q}$  electrical products must be delivered excluding battery/batteries. **Rationale:** Products including batteries must comply with  $\underline{2.9}$ .

#### 1.4.1 Battery compartment safety design requirements

Battery compartments must be designed to prevent children from removing the battery/batteries by one of the following methods:

- 1. A tool, such as a screwdriver or coin, is required to open the battery compartment.
- 2. The battery compartment door/cover requires the application of a minimum of two independent and simultaneous movements of the securing mechanism to open by hand.

Note: Requirement adapted from EN IEC 60086-1.

#### **Exceptions:**

- Clocks intended for wall hanging See 8
- Outdoor AA battery boxes for decorative lighting See 5.1.10
- Toys containing/using batteries See <u>1.4.3</u>
- Products containing/using coin cells See 1.4.4

If screws or similar fasteners are used to secure the door/cover providing access to the battery compartment, the fasteners must be captive to remain with the door/cover after release.

Screws for fastening of battery compartment doors/covers must be fit for use with a PH1 or PZ1 screwdriver.

**Note:** In some cases the requirement of fastener captivity can be replaced by *instructional safeguards* - Such cases need to be clarified with <u>JYSK C&Q</u> before first order acceptance.

#### 1.4.2 Battery compartment and battery terminals

Battery compartments must comply with below:

- Be designed to hold and fix the batteries in the right position under all conditions.
- Have signs that indicates insertion of the batteries with poles facing correctly.

Battery terminals must comply with below:

- The negative battery terminals in the cavity must be battery leaf springs or conical coil battery springs.
- The battery terminals must be of sufficiently good quality to hold the battery in the intended position and ensure a good connection.
- The negative battery terminals must be stable and without risk of short-circuiting the negative terminal with the
  positive metal jacket/terminal.
- The battery terminals must not create any galvanic corrosion with the batteries.



Examples of conical battery springs



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### 1.4.3 Specific requirements for toys containing/using batteries

Toys containing/using batteries must comply with **EN IEC 62115**.

## 1.4.4 Specific requirements for products containing/using coin cells

Products containing/using coin cells must comply with **EN IEC 62368-1** - **4.8** (Equipment containing coin/button cell batteries).

The supplier must clarify the exact need for the following elements with <u>JYSK C&Q</u> before first order acceptance:

- On-product marking.
- Warnings and/or instructions.
- Marking on product packaging.

### 1.4.5 USB charged products

JYSK will follow the <u>Directive (EU) 2022/2380</u> and support a single charging solution for all electronic devices.

All new products intended for charging by USB must have the USB Type-C charging port.

Included charging cables must have USB-C plug at both ends.

USB-C charged products without charger, must be marked with below icon  $\underline{JYSK\ 10187}$  on the sales unit. Minimum height 13 mm.



Example of USB-C No charger icon

### 1.5 Factory Production Control (FPC)

Suppliers of electrical products must ensure that a suitable Factory Production Control (FPC)-System is established, documented and maintained at the place of manufacture.

The FPC must:

- Consist of procedures, regular inspections and tests.
- Ensure that supplied products comply with relevant regulations and directives.

### 1.6 Material requirements

Plastic components must be marked with plastic type (material symbol) in accordance with <u>JYSK 6001</u>.

Products must be easy to separate in plastic, metal, glass, ceramic, wood, printed circuit board (PCB), cables and batteries after ended lifetime.

## 2 Legislative requirements

## 2.1 EU Low Voltage Directive (LVD)

Suppliers must ensure that JYSK products comply with <u>Directive 2014/35/EU</u> and national transpositions hereof.

Suppliers must use harmonized standards under the directive to prove compliance and provide presumption of conformity.

#### Notes:

E.g. harmonized standards of the *EN 60598* series for lighting products.

A list of harmonised standards under LVD is available in the link.

Products covered by LVD requires CE-Marking – See <u>JYSK General Requirements</u>.



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## 2.2 EU Machinery Regulation (MR)

Suppliers must ensure that JYSK products comply with Machinery <u>Regulation (EU) 2023/1230</u> and national transpositions hereof.

Suppliers must use harmonized standards under the regulation to prove compliance and provide presumption of conformity.

#### Notes:

A list of harmonised standards under MR is available in the <u>link</u>.

Products covered by MR requires CE-Marking - See <u>JYSK General Requirements</u>.

Download page <u>JYSK 10411</u> - DoC text page for MR, RED and CPR must be included in the Assembly Instruction/Manual.

## 2.3 EU Electromagnetic compatibility (EMC)

Suppliers must ensure that JYSK products comply with <u>Directive 2014/30/EU</u> and national transpositions hereof.

Suppliers must use harmonized standards under the directive to prove compliance and provide presumption of conformity.

#### Notes:

A list of harmonised standards under EMC is available in the link.

Products covered by EMC requires CE-Marking – See <u>JYSK General Requirements</u>.

#### 2.4 EU Radio Equipment Directive (RED)

Suppliers must ensure that JYSK products comply with  $\underline{\textit{Directive 2014/53/EU}}$  with amendments and national transpositions hereof.

Suppliers must use harmonized standards under the directive to prove compliance and provide presumption of conformity.

#### Notes:

A list of harmonised standards under RED is available in the *link*.

Products covered by RED requires CE-Marking – See  $\underline{\it JYSK~General~Requirements}.$ 

### 2.5 EU Ecodesign

Suppliers must ensure that JYSK products comply with the new <u>Regulation (EU) 2024/1781</u> which repeal <u>Directive</u> <u>2009/125/EC</u>

### Notes:

Products covered by Ecodesign requires CE-Marking – See <u>JYSK General Requirements</u>.

Products covered by Ecodesign in most cases also require energy labelling (see  $\underline{2.6}$ ).

#### 2.5.1 Ecodesign for light sources and separate control gear

Light sources and separate control gear must comply with Regulation (EU) 2019/2020.

Suppliers of products covered by the regulation must ensure products comply with the *Ecodesign requirements* stated in *Annex II* of the regulation.

The supplier must in due time coordinate how to implement Information requirements with <u>JYSK C&Q</u>:

- On the light source itself.
- On the packaging.
- In the technical documentation.



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### 2.6 EU Energy labelling regulation

Suppliers must ensure that JYSK products comply with *Regulation (EU) 2017/1369* by:

- Assuming 'General obligations of suppliers' according to Article 3 towards JYSK.
- Providing <u>JYSK C&Q</u> with any information required (see *Annex 1* of the regulation) to fulfill 'Obligations of suppliers in relation to the product database' (EPREL) according to Article 4.
  - Suppliers must provide the information in the format requested by JYSK.

For products that normally falls within the scope but are outside the scope, the supplier must provide sufficient documentation that it is outside the scope.

#### Notes:

A list of products requiring EU energy labelling is available in the <u>link</u>.

Products requiring energy labelling are also covered by Eco-design (see 2.5)

Unless otherwise agreed with <u>JYSK C&Q</u> JYSK will register products in the EPREL-database and supply the energy label.

 ${\sf EPREL}\ registrations\ cannot\ be\ completed\ without\ \underline{complete}\ technical\ documentation.$ 

#### 2.6.1 Energy labelling of primary light sources

Light sources must be energy-labelled according to *Regulation (EU) 2019/2015*.

Suppliers of products potentially covered by the regulation must clarify if the product is within scope of the regulation before accepting first order. New products within the scope of energy labelling must be approved by <u>JYSK C&Q</u>.

Note that some of the required tests take  $\sim$ 5 months to complete.

Battery driven products are not covered by the regulation.

Suppliers of products within scope of the regulation must in due time coordinate the following with <u>JYSK C&Q</u>:

- Handling of technical documentation and information.
- Registration in EPREL.
- · Application of correct labelling.

### 2.6.2 Energy labelling of decorative light sources

Decorative light sources within scope, must be energy-labelled according to Regulation (EU) 2019/2015.

**Note:** Battery driven products are not covered by the regulation.

Tests must be carried out by a third-party accredited test institute.

Suppliers of products within scope of the regulation must review and provide the following to JYSK C&Q:

- Draft reports, including test method, approach, description and any calculation in detail.
- 3600h durability test report including test method.
- · Coordinate registration in EPREL
- The rated power consumption on the product and documents must be identical with the actual measured maximum power consumption.
- Application of correct labelling according to <u>Table 3</u>

	EU - plug	CH - plug	UK/IE* - plug
EU Energy label	X	X	X
UK Energy label			X

X=Energy label required

**Note:** \*For UK/IE marked both EU Energy label and UK Energy label is required

Table 3 – Overview of required Energy labels for each marked



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### 2.7 EU Restriction of Hazardous Substances Directive (RoHS)

Suppliers must ensure compliance with <u>Directive 2011/65/EU</u> and national transpositions hereof using the harmonized standard **EN IEC 63000:2018**.

Note: Products covered by ROHS require CE-Marking - See JYSK General Requirements.

### 2.8 EU Waste Electrical and Electronic Equipment Directive (WEEE)

Suppliers must ensure compliance with <u>Directive 2012/19/EU</u> and national transpositions hereof by:

- Indelibly marking products covered by the directive with the *separate collection symbol* made available as <u>JYSK</u> <u>10189</u> in correct proportion and size.
- Include the combined WEEE and battery collection text, see  $\underline{1.1}$

At request by JYSK, provide any information required for registration and reporting in the format requested.

#### 2.9 EU Batteries Regulation concerning batteries and waste batteries.

A new Battery <u>Regulation (EU) 2023/1542</u> entered into force in August 2023 amending Directive 2008/98/EC and Regulation (EU) 2019/1020 and repealing Directive 2006/66/EC [2023] OJ L 191/1 ("Batteries Regulation") and starts to apply as of February 18th. 2024.

Note: All batteries including built in batteries must be CE marked from August 18. 2024. Last allowed shipment (ETD) without CE mark is June 1. 2024.

Suppliers must ensure compliance with Regulation (EU) 2023/1542 and national transpositions hereof by:

- Ensuring that batteries contain no Lead (Pb), Mercury (Hg) or Cadmium (Cd).
- Label the products with the *separate collection symbol* in accordance with specified labelling requirements using *JYSK 10189*.
- Provide JYSK C&O with all information necessary for performing producer registration according to Annex IV.

New requirements already demanded by JYSK:

- Designing products so that batteries/accumulators can easily be removed and replaced by the end user.
- Including instructions on how batteries/accumulators can be safely removed and replaced by the end user.

## 3 Labelling

Suppliers must make marking and state information on electrical products in accordance with the instructions given in 3.1 through 3.8.

Note: The check lists are not exhaustive - Additional requirements may be stated directly or indirectly by JYSK from other sources.

Suppliers carry full responsibility that applied markings and stated information is sufficient and adequate.

Suppliers must apply *permanent marking* according to <u>JYSK 6101</u> separately on all electric components included in the product.

**Example:** A light chain including a Class II adapter and a SELV light chain requires two separate markings.

**Note:** For light trees with several SELV branches one marking on the 'main' SELV component is usually sufficient.

On battery powered products the *permanent marking* according to  $\underline{JYSK\ 6101}$  and rating plate/label information according to  $\underline{3.1}$  must be placed on the battery box or similar components.

**Rationale:** JYSK wants to avoid 'flag tags' on cables as the only marking on the product due to the "Kopfhörer-Kennzeichung" - civil court case in Germany (*BGH decision from 09.07.2015, Az.: I ZR 224/13*).



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The permanent marking and rating plate/label information must:

- Be neatly attached to in a way that does not disfigure the product.

  Note: Unsuitable marking practices increases the risk of customers intentionally removing the marking.
- Have a suitable level of durability and indestructibility.
- Not be easily removable.
- Remain attached and legible throughout the lifetime of the product when subjected to normal and foreseeable use.
- Must not cover drainage holes.
- Be color matched to product if visible during normal use of the product or demanded be <a href="YSK C&Q">JYSK C&Q</a>. <a href="Examples: Black with white text or silver with black text">Examples: Black with white text or silver with black text</a>.

Type of permanent marking/rating label	Description	Picture example
Hidden	Permanent marking inside the lid of a solar lam (hidden) JYSK prefers this option when feasible	Made in Chris Chri
	Transparent permanent marking on the bottom of a glass lantern	TO CC TRANKS
Color matched	Color matched permanent marking to placement on product	P44 W LA C C X

Examples of rating/permanent labels



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## 3.1 Product (Rating plate/label)

	Marking checklist - Rating plates/labels	
	'Permanent marking' according to <u>JYSK 6101</u>	
	Mandatory conformity markings	
	Examples: CE mark and CMim mark.	
	WEEE symbol (Crossed-out wheeled bin)	
<b>ng</b> le ent	Indoor mark (When applicable)	$\sim$
<b>rk</b> Sab	according to ISO 7000/IEC 60417	1 1
<b>na</b> plic mp	Ref. No.: 5957	
General marking on all applicable products/components:	Protection class	
<b>all</b> cts	Degree of protection (IP-Class)	
on gen	Any additional marking required to comply with $\underline{2}$ .	
<b>o</b>	Rated voltage	
	Rated wattage	
	Country of origin	
	The year of construction, stated as week/year according to Batch number in <a href="https://www.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.ncber.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Manufacturer logo/trademark (if applicable)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;u&gt;.&lt;/u&gt;&lt;/td&gt;&lt;td&gt;Model number or type reference&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;u&gt;e&lt;/u&gt;a&lt;/td&gt;&lt;td&gt;Symbol for independent control gear&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;5&lt;/td&gt;&lt;td&gt;according to ISO 7000/IEC 60417&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Į.&lt;/td&gt;&lt;td&gt;Ref. No.: 5138&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;io&lt;br&gt;(gr&lt;/td&gt;&lt;td&gt;Rated supply voltage:&lt;/td&gt;&lt;td&gt;•&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;ž į&lt;/td&gt;&lt;td&gt;&lt;ul&gt;     &lt;li&gt;Voltage range (e.g. 220-240V)&lt;/li&gt; &lt;/ul&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;der&lt;br&gt;Ig&lt;/td&gt;&lt;td&gt;Voltage frequency (e.g. 50-60 Hz)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;narking for independent con&lt;br&gt;(e.g. for decorative lighting)&lt;/td&gt;&lt;td&gt;Value of t&lt;sub&gt;c&lt;/sub&gt; (case temperature)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;lep&lt;br&gt;ati&lt;/td&gt;&lt;td&gt;" indication<="" selv"="" td=""><td></td></a>	
i Š	Maximum working voltage (U <sub>out</sub> )	
ė. ge	Rated output:	
o o	• Power (Prated)	
ë ÷	Voltage (U <sub>rated</sub> ) OR Current (I <sub>rated</sub> )	
e.9	Identification symbol for transformers	
E 🔾	according to ISO 7000/IEC 60417	
Ų.	Ref. No.: 5947	
Specific marking for independent control gear (e.g. for decorative lighting)	Polarity symbols	
<u> </u>	(on transformers using coaxial power connector - See $5.1.9$ )	
	Voluntary certification marks according to 3.4	

## 3.2 Sales unit labelling

Marking checklist – Sales unit packaging
'Sales unit labelling' according to <u>JYSK 6101</u>
Mandatory conformity markings
Examples: CE mark and CMim mark.
WEEE symbol (Crossed-out wheeled bin)
Protection class
Degree of protection (IP-Class) See also <u>3.2.1</u>
Schematic illustration of decorative lighting products (as applicable) according to 3.5
Ecodesign information
Customer specific information according to $\underline{3.7}$
Indoor/Outdoor mark
Supply source symbol
Timer symbol (when applicable) according to 3.8



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## 3.2.1 Country specific degree of protection labelling 230V

Example of UK/IE outdoor decorative lightning.	Splashproof (IP44) – plug only suitable for indoor use
Example of Switzerland outdoor lightning with different protection degrees.	IP44 IP55

Examples of country specific outdoor degree of protection labelling (IP-Class)



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## 3.3 Manuals and Assembly Instructions

Manuals and Assembly Instructions for electrical products, e.g. LED tealights, lamps, gamer desk with LED, elevation beds, must include JYSK Company information, JYSK UK-importer information and JYSK Morocco-importer information in accordance with <u>JYSK 6101</u>.



Figure 1 - Example of last page in Assembly Instruction with importer information's for electrical height-adjustable desk



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## 3.4 Voluntary certification marks and other symbols

On certain electrical products/components voluntary certification can be used to show compliance with standards and regulations.

- Only the "Recognized voluntary certifications" shown in <u>Table 4</u> are permitted without preapproval by <u>JYSK C&Q</u>.
- Use of certification marks or other symbols not included on the recognized list must be approved by <u>JYSK C&Q</u>.
- Use of false or invalid marks or other misleading symbols is prohibited.

KEMA-KEUR	KEMA	
GS Mark	geprüfte Sicherheit	
Nordic certification marks:  Nemko Semko Demko Fimko	(N)(S) (D)(F)	
ENEC	<b>3</b>	
DEKRA EMC-mark	D DEKRA EMC	
Swiss Safety Mark	Š	
Above symbols are for explanatory purposes only – Do not copy!		

Table 4 - Recognized voluntary certifications



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## 3.5 Schematic illustration of decorative lighting products

On the backside of the packaging the following information must be stated (as applicable) using similar pictograms as shown in  $\underline{Table\ 5}$  or another schematic illustration of the product:

- Number of lamps
- Distance between lamps
- Distance from supply to first lamp
- Cord length

Schematic illustrations not utilising the pictograms must be approved be <u>JYSK C&Q</u>.

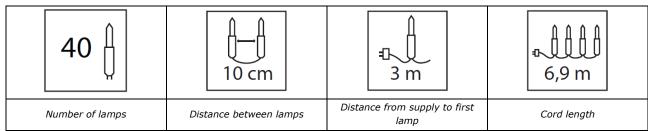


Table 5 - Examples of pic

On the front side of the packaging below the product name, the active part of the lighting product (the part with LEDs) and the number of LEDS must be stated.

## Example: L3,90m W/40 LED

**Note:** The distance from 230V supply to first bulb must minimum be 1,5m according to **EN60598-2**.

## 3.6 Nominal lifetime and color temperature

Information for lighting without Energy label must be stated in accordance with Table 6

Nominal lifetime of LEDs	Must be expressed in hours e.g.: ~25 000 h		
Colour temperature of LEDs	Must be expressed in Kelvin e.g.: 2700 K		
Symbol according to ISO 7000/IEC 60417 Ref. No.: 5012	-\		
Example of how to state the information	~25 000 h 2700 K		

Table 6 – Lamp information



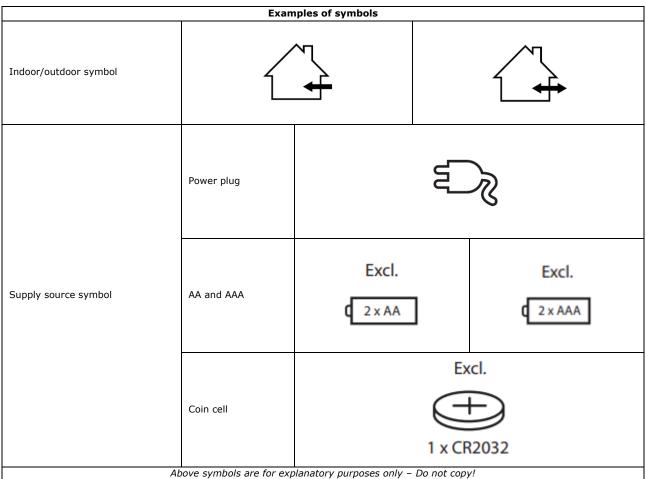
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## 3.7 Customer specific information

Information on sales units about *indoor/outdoor use* and *supply source* must be stated using the symbols provided by JYSK in  $\underline{JYSK\ 10190}$ .

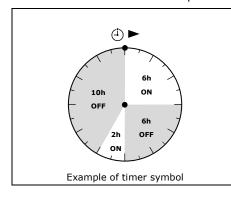
Texts must be edited to match the actual product for some symbols.

**Note**: Rating plate/labels must be marked according to <u>3.1</u>.



## 3.8 Timer symbols (For decorative lighting)

When timers are included in the product a symbol like shown below must be created:



- Clock dial divided into 24 hours and with a dot in the centre.
- $\bullet\,$  "Timer" and "Start" symbol at the "starting point" represented by a dot.
- On/Off-sequence illustrated using representative division of clock dial in different colours.
- Text format as shown.
- The symbol may size as needed but the scale must be roughly maintained.
- Texts, "Timer" and "Start" symbol must be legible.



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## 4 Lighting products

Lamps and pendants must include Edison lamp holders E14 or E27 according to IEC 60061.

Lamps and pendants must be tested and marked for use with light bulbs with a wattage ≥25 Watt.

The applicable type of light bulb (socket) must be marked.

Lamps and pendants must not include light bulbs or other light sources in the product.

Note: Exceptions can be made with approval from JYSK C&Q.

**<u>Rationale:</u>** Products containing light sources have to comply with  $\underline{2.5}$  and  $\underline{2.6}$ .

## 4.1 Floor lamps



Examples of floor lamps

## 4.2 Table lamps and clamp lamps



Examples of table lamps and a clamp lamp



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### 4.3 Pendants



Examples of pendants

## 4.4 Light bulbs

Light bulbs must comply with 2.5 and 2.6.

## 5 Decorative and portable lighting products

### 5.1 General requirements

### 5.1.1 Protection class

Products must comply with minimum requirements according to <u>Table 7</u>.

Luminaires	Class III or higher			
Transformer/converter	Class II or higher			

Table 7 - Protection class

## 5.1.2 Degree of protection (IP-class)

Products must comply with requirements stated in *Table 8*.

Indoor	IP 20 or higher
Outdoor	<i>IP 44</i> or higher

Table 8 - IP-Class

### 5.1.3 Lamps

- Only LED-modules may be used as lamps.
- The LED-modules must not be replaceable.
- LED- modules must comply with **EN 62031**.
- The supplier must ensure that LED-modules do not breach patents.

## **5.1.4 Corrosion resistance**

The supplier must ensure that outdoor products are corrosion resistant to a suitable level to fulfil the *period for statutory right of claim*.

Outdoor products of steel must be able pass testing according to  $\underline{\textit{Table 9}}$ .

Test method	Requirement
<b>72 Hours</b> Neutral Salt Spray method (NSS) according to <b>ISO 9227</b>	No sign of red rust and Appearance rating ≥5 for white rust (R <sub>A</sub> according to <b>ISO 10289</b> )

Table 9 - Corrosion resistance



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#### 5.1.5 Timer accuracy

Instantaneous rate must be maximum  $\pm 1$  minute / day (24h).

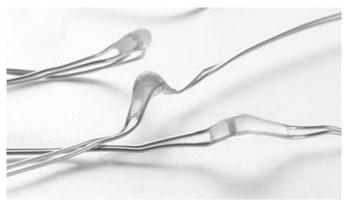
Accuracy of battery driven products must be tested at nominal supply voltage from a suitable power supply (Fresh batteries may be used in day-to-day testing).

#### 5.1.6 Use of enameled wire

Enamelled wire conductive material must be made of copper or aluminium.

The supplier must be very careful regarding soldering as excessive melting/removal of coating can easily lead to breach of requirements described in  $\underline{1.2}$ .

JYSK requires that the enamelled wire is constructed with bends at LED-solders as shown below to increase the margin of safety regarding coverage of solders.



Enamelled wire of copper must comply with IEC 60317-0-1

Enamelled wire of aluminium must comply with IEC 60317-0-3

Minimum nominal conductor diameter must comply with <u>Table 10</u>.

Battery driven	≥Ø0,355 mm	
Mains driven	According to harmonized standard (see $2.1$ ).	

Table 10 - Minimum diameter

#### **5.1.7 Cables**

Cable conductive material must be made of copper or aluminium.

Minimum cross-sectional area must comply with  $\underline{\textit{Table 11}}$ .

Battery driven	≥0,08 mm²	
Mains driven	According to harmonized standard (see $2.1$ ).	

Table 11 - Minimum cross-sectional area

## **Cable colours**

Visible cables must be colour matched to the product.

### 5.1.8 Control gear

Transformers/converters must be safety isolating, short circuit proof and provide SELV.

The transformer/converter must be the same throughout the whole delivery of the specific product number.

The manufacturer name/brand, model number and output must be stated in the PIF.

Timers and/or light-functions must be integrated in the battery box or transformer/converter.

Non-integrated solutions must be approved by <u>JYSK C&Q</u> regarding type and placement.



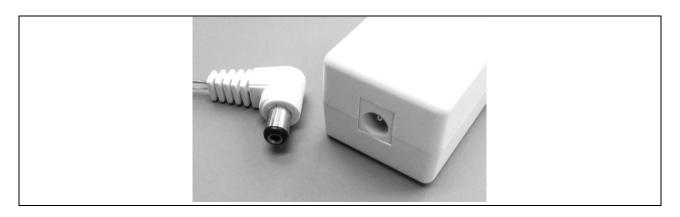
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## 5.1.9 Connections between transformer/convertor and luminaire

For Class III luminaries connections must comply with **EN 61347-1** as well the requirements stated by JYSK for indoor and outdoor respectively.

#### Indoor

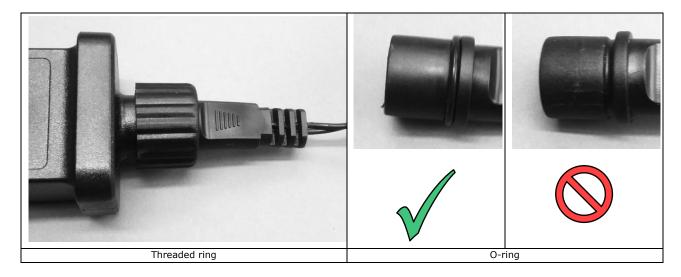
The connection method must be a suitably dimensioned coaxial power connecter (e.g. according to IEC 60130-10).



## Outdoor

The following requirements apply:

- O-ring must be included.
- Threaded ring must be included to screw the connection together.



The connection method must preferably be according to *IEC 60906-3*:

- D.C. SELV Socket-outlet/plug.
- Correctly positioned coding groove.

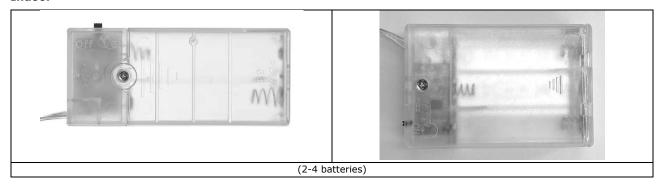


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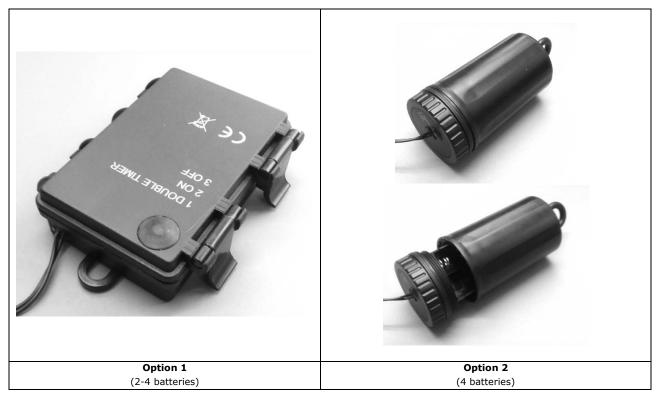
## 5.1.10 Battery boxes

The types of battery boxes shown within this chapter are preferred. Use of other types of battery boxes must be approved by <code>JYSK C&Q</code>.

## Indoor



## Outdoor

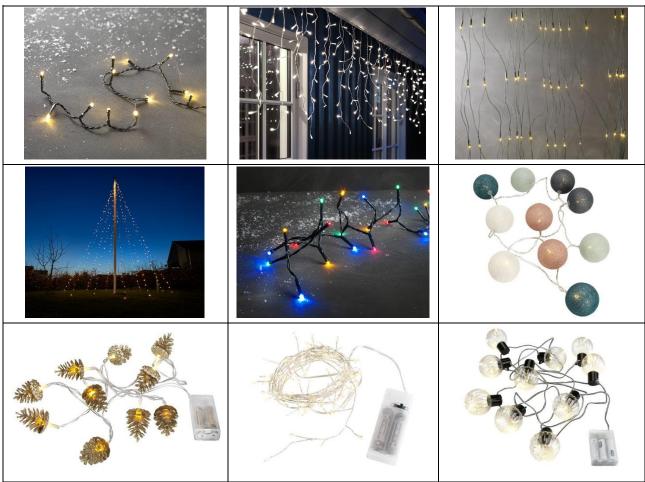




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## 5.2 Decorative light chains and string lights

Battery driven string lights must use AA batteries.

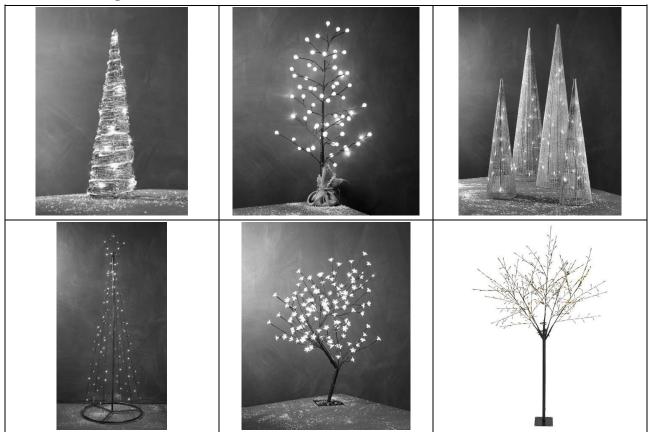


Examples of decorative light chains



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## 5.3 Decorative light trees



Examples of decorative light trees

## Mounting solutions for outdoor

Outdoor light trees must be delivered with a suitable foot for installation on hard plane surfaces as well as a solution for installing the product on a soft surface such as a grass lawn (i.e. spear or spikes).

The supplier must recognize weather and wind conditions of the countries of sale when designing and dimensioning the solutions.

## Cable and adapter colour

Must be black

#### **Tape**

- Must be black.
- Must be wound neatly without holes or gaps.
- The supplier must show special attention to the packaging process to secure that the tape is not ripped or scratched.



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## 5.4 Portable luminaires indoor



Examples of portable luminaires

- Led-lanterns that can be mistaken for a regular lantern must comply with requirements for lanterns in <u>JYSK 1005</u>.
- Permanently closed lanterns must comply with IP44 requirements to avoid access for dust and foreign objects e.g. spiders.



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## 5.5 Solar lamps and portable luminaires outdoor



Examples of solar lamps

Solar lamps and portable luminaires for outdoor use are critical products that must comply with below:

## General

- Solar panel type according to agreed specs. Silver circuits in panels must be covered if specied by <u>CAM</u>.
- Solar lamps must have calculated ratios between the panel, battery and bulb and must be able to light up for at least 6 hours after optimum charge unless oftherwise specified by *CAM*.
- Electric circuit in solar lamps must be disabled by a switch upon delivery.
- Solar lamps must be easy to use/start up.
- Parts must not easy detach. Soft glue is not allowed as fixture.

### Stability

- The lamp must be easy to assemple and must constiture a stable unit after assembly.
- If the lamp is with a spear, it must be strong enough to support the lamp, both the connection part of the lamp and in wet soil and sand.



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#### Water resistant

- All lamps must be water resistant to at least IP44 level. Pass test report must be part of documentation.
- Lamps must be designed in a way that prevents accumulation of stagnant water near the electronics.
- Solar panels must be coated and not countersunk if possible.
- No drainage holes through the electronic parts of the lamp.
- Drain holes in the bottom are allowed as ventilation holes.
- Steel must be corrosion resistant in accordance with <u>JYSK 1009</u>
- Table- and ground models must be lifted minimum 5 mm free of the surface by feets or other agreed solutions.
- If the mechanical part of the lamp or lantern is at the bottom of the product, the product must have an elevated bottom to avoid degradation by water.

### Labelling and packaging

- Special features like timer, flash, flame, color lights and "light up time" must be labeled as agreed with <u>CAM</u> and according to <u>JYSK 6201</u>.
- Permanent/rating labels must be according to <u>3</u> and placed easily available and hidden during normal use. If in doubt, contact <u>JYSK C&Q</u>.
- Solar lamps must be marked for both indoor and outdoor use.

#### Lamps in a carton box

- Lamps in a box packaging must have full product information and a drawing on the carton.
- WEEE and battery collection text, Assembly- and User instruction must be inside the carton.

### Lamps in a display

- Lamps in a display (SDP), or without packaging, can be labelled only with a "Sales label" if the following can be placed easily available inside the lamp:
  - WEEE and battery collection text
  - Assembly- and User instruction
- Sales labels must be easily removable and must not leave any glue when removed.

JYSK product text JYSK product number/s 5 701390 478152

Example of a simple Sales label

• If placement of WEEE and Battery collection text, Assembly- and User instruction inside the lamp is not possible, the lamp must have a hangtag or pamphlet with the needed information.



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## 6 Household appliances



Examples of household appliances

### 7 Electrical furniture

Electrically operated furniture, such as beds, chairs, tables, storage furniture including kitchen furniture must comply with the Machinery Regulation (MR) see 2.2.

Massage chairs (if not electrically adjustable) must comply with the *Low Voltage Directive (LVD)* (see  $\underline{2.1}$ ) and the harmonized standard **EN 60335-2-32** (including amendments).

### Regulation (EU) 2023/1230



Examples of electrical furniture

## 8 Clocks and watches

Clocks and watches must comply with JYSK 2003.

## 9 Batteries

Batteries and products containing batteries must comply with 2.9.

## 9.1 Lithium batteries and ADR transport rules

Lithium- and lithium-ion battery products and separate lithium batteries must:

- 1. Comply with the requirements of Special Provision 188 of Chapter 3.3 in ADR.
- 2. Be approved by  $\ensuremath{\textit{\underline{JYSK C\&Q}}}$  before placement of first order.

## Labelling for handling units and master boxes:

Suppliers must label handling units and master boxes according to <u>Table 12</u> using the labels made available by JYSK.

Button cell batteries included in equipment:	Labelling number	JYSK Download:
Button cell batteries in bulk packaging for sale:	Label UN3090	<u>JYSK 60015</u>
Button cell batteries included in packaging, not included in equipment:	Label UN3091	<u>JYSK 60016</u>
Batteries included in equipment:	Label UN3481	<u>JYSK 60017</u>

Table 12 - labelling of lithium batteries