



L C I E

TEST REPORT N°: LGY-13OC147LTHS

TEST REPORT

To:	ZHONGSHAN LIANGYI LIGHTING CO., LTD	To:	-
Attn:	Joe	Attn:	-
Address:	BeiHai Industrial Zone, GuZhen Town, ZhongShan, GuangDong, P.R. China	Address:	-
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This document includes: 15 pages / annex1: packing information

Factory name:	Same as applicant	Offer:	LGY-13OC21-01LTHS-A2
Location:	Same as applicant	Sample No:	HK140303/009, HK131230/008, HK131018/010
	Start date:	October 21, 2013	
	Finish date:	March 13, 2014	
	Standards used: (Date):	EN 60598-1: 2008 + A11: 2009; EN 60598-2-4: 1997; EN 62493: 2010	
	Sections examined:	All sections	
	Re-testing:	Section 0, 5 and 11	
	E14 TABLE LAMP Models T12074		
Remark / Note:		SEE PAGE 2 to 3	

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The samples comply with the requirements of the examined standards after modification.

Test done by,	Approved by,
	
Engineer: Paul MOK	Assistant Manager: Wai-Yung CHEUNG
Date: March 13, 2014	Date: March 13, 2014



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TEST REPORT N°: LGY-13OC147LTHS

HISTORICAL OF REMARKS

R1	--	Component certificate	Picture of the problem
Description of the problem (Remark 1):			None
For E14 lampholder, the certificate shall be provided for checking.			
Modification result: Pass			Picture of modification
The component certificate was received and checked.			None

R2	Section 3	Marking	Picture of the problem
Description of the problem (Remark 2):			None
The Instruction manual, label artwork with label dimension, label material for label rubbing test and label position shall be provided for checking.			
Modification result: Pass			Picture of modification
The Instruction manual, label artwork with label dimension, label material for label rubbing test and label position was received and checked.			None

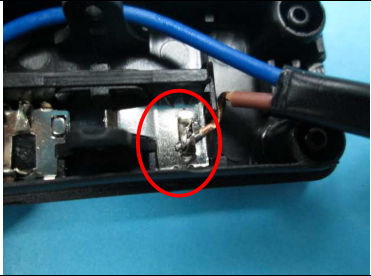
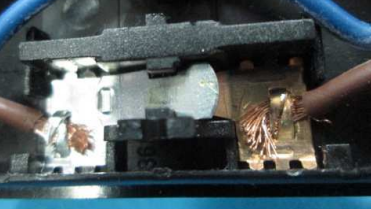
R3	Section 11	Creepage and clearance	Picture of the problem
Description of the problem (Remark 3):			
The measured creepage between the stressed supply cord by edge of cable entry (near lamp head) to metal tube was less than 2,5mm allowed for supplementary insulation.			
Modification result: Pass			Picture of modification
Alternative bushing was used to replace the original one. The measured creepage between the stressed supply cord by edge of cable entry (near lamp head) to metal tube was more than 2,5mm.			



L C I E

TEST REPORT N°: LGY-13OC147LTHS

R4	Section 5	Bushing	Picture of the problem
Description of the problem (Remark 5): The bushing for the metal tube near the lamp head was removed easily and not fixed in position, which is not allowed.			
Modification result: Pass The bushing was fixed in position on modified sample.			Picture of modification 

R5	Section 5	External wiring	Picture of the problem
Description of the problem (Remark 5): The soldered wire must not be clamped. However, it is found in the wire connection inside switch.			
Modification result: Pass No soldering found on the terminal of switch on the modified sample.			Picture of modification 



L C I E

TEST REPORT N° LGY-13OC147LTHS

HISTORICAL OF SAMPLE RECEIVED

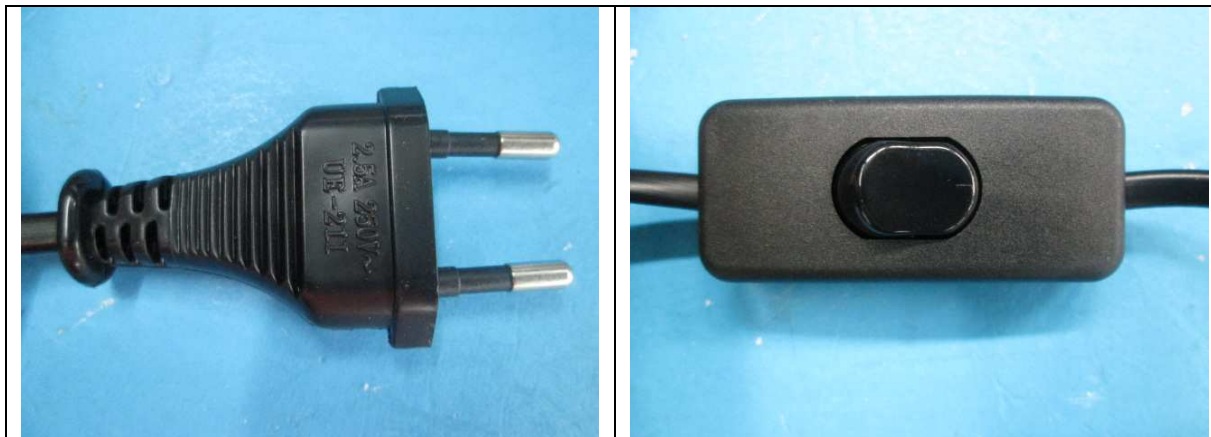
LABORATORY	RECORDED N°	DETAIL OF THE SAMPLE	SPECIAL REMARKS
HK	-	Rating label, label location and certificate received on February 20, 2013	None
HK	HK140303/009	Switch	None
HK	HK131230/008	Modified	R1, R2 and R5
HK	HK131018/010	Original	R1 to R5

COPY OF RATING PLATE:

Rating label (on cable)	Relamping label (inside lampshade)
Jeśli zewnętrzny elastyczny kabel lub wtyczka niniejszej oprawy oświetleniowej są uszkodzone, wówczas musi on zostać wymieniony przez producenta, jego serwis lub inną wykwalifikowaną osobę, aby uniknąć niebezpieczeństwa urazu. colours Artykuł nr: T12074 1 x MAX 9W E14 220-240V~50/60Hz Castorama Polska Sp. z o.o. ul. Krakowiaków 78, 02-255 Warszawa Wyprodukowano w ChRL	MAX 9W E14

Only markings in English present on the sample tested were checked and validated during this examination.

The text required by the standard should be translated into the official language of the country where the appliance will be sold.

PICTURES OF THE SAMPLE TESTED:



L C I E

TEST REPORT N° LGY-13OC147LTHS





L C I E

TEST REPORT N° LGY-13OC147LTHS

DESCRIPTION	
Trademark:	colours
Type of appliance:	Portable luminaire
Type / model:	T12074
Color of enclosure:	See picture on page 1
Rated Voltage (V):	220 - 240V
Nature of supply:	a.c.
Rated power (W)	Max. 9W
Class of protection against electrical shock:	Class II
Degree of protection against moisture:	IP20
CE marking:	Present
F marking:	Suitable for direct mounting on normally flammable surfaces
Type of switch:	Cord switch
Type of fixation (X, Y, M, Z):	Type Y
Marking on knobs:	NA
Supply connection:	Non-detachable flexible cord with plug
Other information about appliance:	Type of lampholder: E14; Type of light source: Energy saving lamp only
Accessory provided with the luminaire:	Nil

Possible test case verdicts:	
- Test object does meet the requirement	P (Pass)
- Test case does not apply to the test object	NA (Not applicable)
- Test object does not meet the requirement	F (Fail)
- Test object does not demand	ND (Not Demanded)
General remarks:	
“(See remark #)” refers to a remark appended to the report.	
Throughout this report a comma is used as the decimal separator.	
The test results presented in this report relate only to the object tested.	



TEST REPORT N° LGY-13OC147LTHS

EN 60598-1 and EN 60598-2-4			
Section	Requirement Test	Result – Value – Remark	Verdict
0	COMPONENTS OF LUMINAIRES		P
	Components comply with the requirements of the relevant standards (see pages 13 and 14/15)		P
2	CLASSIFICATION		P
	. Compliance of the classification		P
3	MARKING		P
	. Marking on the luminaires		P
	. Other requirements		P
4	CONSTRUCTION		P
4.2	- Replaceable components		P
4.3	- Wire ways		P
4.4	- Lamp holders		P
4.5	- Starter holders		NA
4.6	- Terminal blocks		NA
4.7	- Terminals and supply connections		P
4.8	- Switch		P
4.9	- Insulating linings and sleeves		P
4.10	- Double and reinforced insulation		P
4.11	- Electrical connections and current-carrying parts		P
4.12	- Screws and connections (mechanical), glands		P
4.13	- Mechanical strength		P
4.14	- Suspensions and adjusting devices		NA
4.15	- Flammable materials		P
4.16	- Luminaires for mounting on normally flammable surfaces		P
4.17	- Drain holes		NA
4.18	- Resistance to corrosion		NA
4.19	- Ignitors		NA
4.20	- Rough service luminaires		NA
	- Vibrations requirements		NA
4.21	- Protective shield (tungsten halogen lamps)		NA
4.22	- Attachments to lamps		NA
4.23	- Semi- luminaires		NA
4.24	- UV radiation		NA
4.25	- Mechanical hazard		P
4.26	- Short-circuit protection		NA
4.27	- Terminal blocks with integrated screwless earthing contact		NA



TEST REPORT N° LGY-13OC147LTHS

EN 60598-1 and EN 60598-2-4			
Section	Requirement Test	Result – Value – Remark	Verdict
11	CREEPAGE DISTANCES AND CLEARANCES		P
	Minimum distances (mm)		P
	Basic insulation 2,5 - 1,5		P
	Supplementary insulation 2,5 - 1,5		P
	Reinforced insulation 5,0 - 3,0		P
7	PROVISION FOR EARTHING		NA
	. Earthing connections of low resistance		NA
	- Test: >10A, <12V – Result: R<0,5Ω		NA
	. Other requirements		NA
14	SCREW TERMINALS		NA
	. Compliance with the requirements of relevant standards		NA
	. Compliance with the requirements of this section		NA
15	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		P
	. Compliance with the requirements of relevant standards	Lampholder and switch	P
	. Compliance with the requirements of this section		NA
5	EXTERNAL AND INTERNAL WIRING		P
5.2	. Supply connection and other external wiring		P
5.3	. Internal wiring		P
8	PROTECTION AGAINST ELECTRIC SHOCK		P
	. Live parts not accessible		P
	. Other requirements		P
12	ENDURANCE TEST AND THERMAL TEST		P
12.3	- Endurance test		P
	. ta = 35°C [X] - ta = 25°C []		P
	. U = 1,05 U to Pn [] - P = 1,05 Pn [] - U = 1,1 Un [X]		P
	. 10 cycles [X] - 7 cycles []		P
	. Results		P
12.4	- Thermal test (normal operation)		P
	. ta = 25°C		P
	. P = 1,05 Pn [] - U = 1,0 Un puis 1,06 Un [] - U = 1,06 Un [X]		P
	. Results (below)		P



TEST REPORT N° LGY-13OC147LTHS

EN 60598-1 and EN 60598-2-4			
Section	Requirement Test	Result – Value – Remark	Verdict

PARTS	NA	Maximum temperature specified (°C+5°C)	Maximum temperature measured (°C)
. Lamps caps		210	70
. Ballast winding:	X		
- tw 130	X		
- tw	X		
. Transformer winding:	X		
- Class H	X		
- Class	X		
. Case:	X		
- Of capacitor	X		
- Of starting device	X		
- Of ballast	X		
- Of convertor	X		
. Insulation of wiring not stressed (mechanical stress):			
- PVC (external)	X		
- PVC (internal)		90	37
- PVC with sleeve		120	42
- Silicone [] -glassfibre []	X		
-PTFE [] – FEP [X]	X		
. Insulation of wiring stressed (mechanical stress):			
- PVC	X		
- Silicone [] -glassfibre []	X		
. Heat-resisting sleeves	X		
. Contacts of ceramic lampholders	X		
. Insulating material			
- Of lampholder		210	61
- Of starter holder	X		
. Switches		55	< 30
. Insulating materials retaining current-carrying parts in position	X		
. Insulating materials retaining current-carrying parts in position	X		
. Insulating materials providing protection against electric shock	X		
. Mounting surface		90	< 30
. Means of adjustment [] metal part [X] non-metal part		75	50
. Surrounding space [] metal part [X] non-metal part		75	36
. Objects lighted (d = 0,1m)		90	< 30
. Test recess	X		
. Track	X		



TEST REPORT N° LGY-13OC147LTHS

EN 60598-1 and EN 60598-2-4			
Section	Requirement Test	Result – Value – Remark	Verdict

PARTS	NA	Maximum temperature specified (°C+5°C)	Maximum temperature measured (°C)
. Mains socket-outlet-mounted-luminaire and plug-ballast-transformer:	X		
- Case intended to be gripped by hand	X		
- Plug-socket interface	X		
- Other parts	X		
. Lampshade	X		
. Other requirements	X		
	X		
(1) No limit is specified, but these materials must satisfy the tests of section 13			

12.5	- Thermal test (abnormal operation)		NA
	. ta = 25°C		NA
	. P = 1,05 Pn [] - U = 1,1 Un [] -U = 1,06 Un []		NA
	. Abnormal circuit condition applied:		NA
	- Short-circuit of starter contacts []		NA
	- Overturning []		NA**
	- Unfavorable adjusting to the lighted surface []		NA
	- Secondary circuit short-circuited []		NA
	- Other condition [] :		NA
	. Results (below)		NA

(**) sample is stable on 15 degree

PARTS	NA	Maximum temperature specified (°C+5°C)	Maximum temperature measured (°C)
. Ballast winding:	X		
- tw 130	X		
- tw	X		
. Transformer winding:	X		
- Class H	X		
- Class	X		
. Case of capacitor	X		
. Mounting surface [] -Lighted surface []	X		
. Test recess	X		
. Track	X		
. Mains socket-outlet-mounted-luminaires and plug-ballast/	X		
Transformer case parts intended to be gripped by hand	X		



TEST REPORT N^o. LGY-13OC147LTHS

EN 60598-1 and EN 60598-2-4			
Section	Requirement Test	Result – Value – Remark	Verdict
12.6	- Thermal test (failed lamp control gear conditions)		NA
	. ta = 25°C		NA
12.6.1	- Ballast/transformer without thermal cut-outs:		NA
	. Abnormal condition applied:		NA
	- Lamp not start []		NA
	- Other condition [] :		NA
	. Results (below):		NA
	- T° of mounting surface 180°C for T°winding = 350°C		NA
Supply voltage		Temperatures (°C)	
		Of ballast winding	Of mounting surface
0,9 Un		--	--
1,0 Un		--	--
1,1 Un		--	--
12.6.2	- Ballast/transformer with thermal cut-outs:		NA
	. Abnormal condition applied:		NA
	- Lamp not start []		NA
	- Other condition [] :		NA
	. Results:		NA
	- T° mounting surface 135°C (110°C)		NA
12.7	Thermal test (fault conditions in lamp control gear or electronic devices in plastic luminaires)		NA
9	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
9.2	- Tests for ingress,	IP20	P
	. Of solid objects IP3X [] - 4X []		NA
	. Of dust IP5X [] - 6X []		NA
	. Of moisture IPX1 [] - X3 [] - X4 [] - X5 [] - X6 [] - X7 [] - X8 []		NA
9.3	- Humidity test	48hrs, RH 93%, 29°C	P



TEST REPORT N^o. LGY-13OC147LTHS

EN 60598-1 and EN 60598-2-4			
Section	Requirement Test	Result – Value – Remark	Verdict
10	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
10.2	Insulation	Insulation resistance	Electric strength
	Basic	$\geq 1 \text{ M}\Omega$ [] $\geq 2 \text{ M}\Omega$ [X]	500 V [] 1480 V [X]
	Reinforced	$\geq 4 \text{ M}\Omega$ [X]	2960 V [X]
	Supplementary	$\geq 2 \text{ M}\Omega$ [X]	1480 V [X]
	. Results		P
	- Parts stressed by the pulse voltage		NA
10.3	- touch current [0,7 mA peak]		P
13	RESISTANCE TO HEAT, FIRE AND TRACKING		P
13.2	- Resistance to heat		P
	. Ball pressure test	Approved components	P
13.3	- Resistance to flame and ignition		P
	. Needle-flame test	Approved components	P
	. Glow-wire test 650°C	Approved components and tested on bushing and lampshade	P
13.4	- Resistance to tracking		NA
	REQUIREMENTS STANDARD EN 60 598-2-4		P
	REQUIREMENTS STANDARD EN 62493	According to clause 4.3, there is no any electronic control gear and electronic component on the sample, therefore, it is claimed to comply with this requirement without testing	P



TEST REPORT N^o. LGY-13OC147LTHS

Components list:

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Mark(s) of conformity	1	2	3	R
E14 lampholder	Xiaolan Town BaiLe	E14-A/1	250V, 2A, T210	VDE	X			
E14 lampholder (alternative)	3E	E14P2A	250V, 2A, T210	VDE	X			
	Yarncin	YX38	250V, 2A, T210	VDE	X			
	Jia Zhan	E14-L	250V, 2A, T210	VDE	X			
	YaSheng	ys-001	250V, 2A, T210	VDE	X			
Supply cord	Hanli	H03VVH2-F	2 x 0,75mm ²	VDE	X			
Supply cord (alternative)	3E	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Unirise	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Unirise	03VVH2-F	2 x 0,75mm ²	VDE	X			
	HongLi	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Kenic	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Da Zheng	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Kai Hua	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Top Resources	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	JIANGMEN GOMENTECH	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Dongju	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Yuanben	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Sinofair	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Yong Rui	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Arditi	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Arditi	03VVH2-F	2 x 0,75mm ²	VDE	X			
	New Square	H03VVH2-F	2 x 0,75mm ²	VDE	X			
	Zhongshan Luoka	H03VVH2-F	2 x 0,75mm ²	VDE	X			
Switch	Openwise	303	250V, 2A	VDE	X			
Switch (alternative)	Openwise	304	250V, 2A	ENEC14	X			
	Green Way	737	250V, 2A	ENEC05	X			
	Ojun	8S.303	250V, 2A	VDE	X			
	Ojun	8S.304	250V, 2A	ENEC05	X			
	3E	II-3	250V, 2A	VDE	X			
	Shenzhen MJM	303	250V, 2A	DEKRA	X			
	Shenzhen MJM	304	250V, 2A	DEKRA	X			
Plug	Hanli	HL-801	250V, 2,5A	VDE	X			
Plug (alternative)	Unirise	UE-211	250V, 2,5A	VDE	X			
	3E	PL-1	250V, 2,5A	VDE	X			
	Kenic	KE-21	250V, 2,5A	VDE	X			



TEST REPORT N^o. LGY-13OC147LTHS

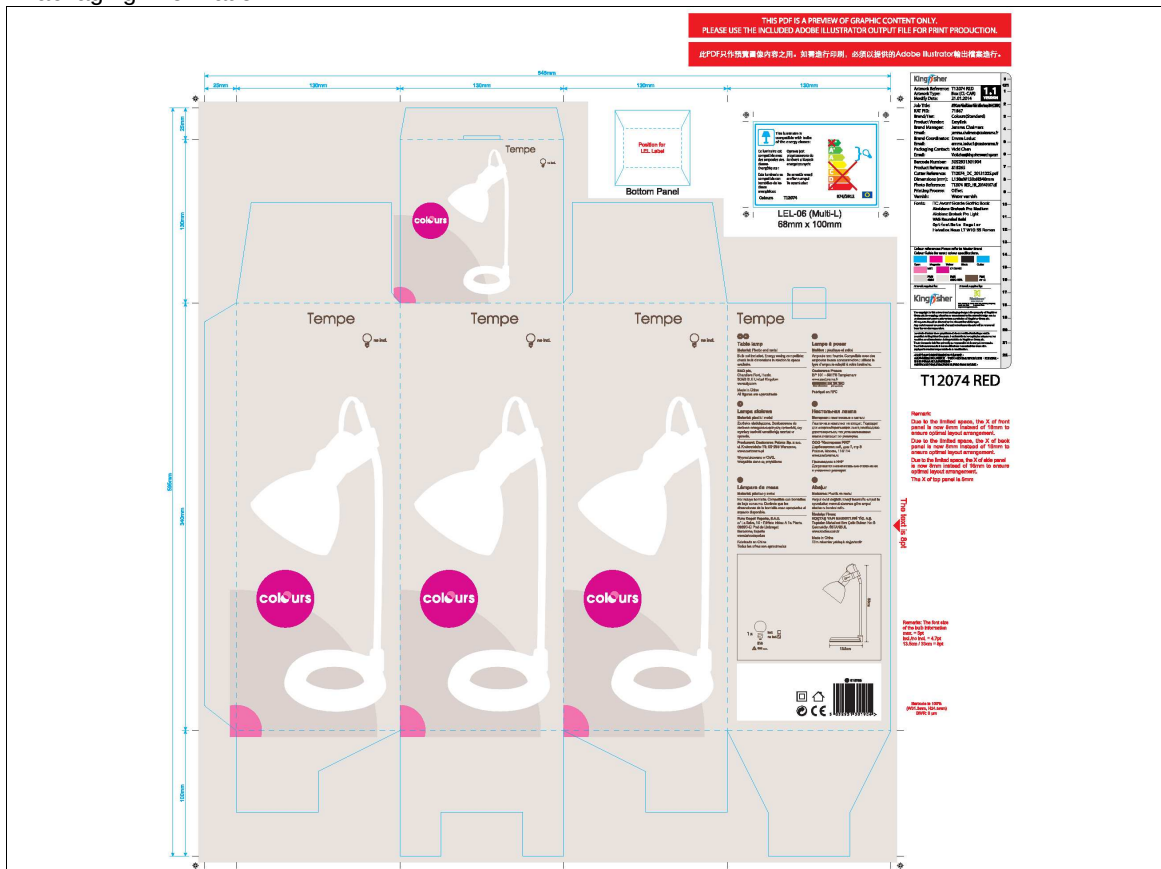
Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Mark(s) of conformity	1	2	3	R
	Kai Hua	KH-9903	250V, 2,5A	VDE	X			
	Kai Hua	KH-9903B	250V, 2,5A	VDE	X			
	Jinhui	P501	250V, 2,5A	VDE	X			
	Yuanben	YB-170	250V, 2,5A	VDE	X			
	Yun Hao	YH-009	250V, 2,5A	VDE	X			
	Ching Cheng	EL-207	250V, 2,5A	VDE	X			
	Ke Jin	KJ-118	250V, 2,5A	VDE	X			
	Dongju	DJ-011	250V, 2,5A	VDE	X			
	JIANGMEN GOMENTECH	GM-02	250V, 2,5A	VDE	X			
	Shenzhen MJM	1011	250V, 2,5A	DEKRA	X			
	Arditi	2130	250V, 2,5A	VDE	X			
	Green Way	M-11	250V, 2,5A	ENEC05	X			
Heat shrinkage tube	Salipt	S-901-600	600V, 125°C, E209436	Test in appliance			X	
Heat shrinkage tube (alternative)	ChangYuan	CB-HFT	600V, 125°C, E180908	Test in appliance			X	
	WOER	RSFR-H	600V, 125°C, E203950	Test in appliance			X	

- (1) This component bears the stamp of a European conformity mark or has been granted a certificate of conformity.
 (2) Applicable specific rules do not exist for this component; consequently, it has been tested according to the requirements of appropriate clauses of applied documents and is satisfactory.
 (3) This component has been tested according to the requirements of appropriate clauses of applied documents and is satisfactory.

TEST REPORT N°: LGY-13OC147LTHS

Annex 1: Packaging information

Packaging information



Only markings in French present on the sample tested were checked and validated during this examination.

The text required by the standard should be translated into the official language of the country where the appliance will be sold.