

TEST REPORT

REQUIREMENTS FOR DIRECTIONAL LAMPS, LIGHT EMITTING DIODE LAMPS AND RELATED EQUIPMENT ACCORDING TO THE EC REGULATION 1194/2012

Implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, light emitting diode lamps and related equipment.

APPLICANT, IDENTIFICATION OF THE TEST SAMPLE

Applicant	SHENZHEN SHYUGJ TECHNOLOGY CO.LTD.
Applicant Address	3/F, 4th Building, Hanguang Park, Chuangye 4th Road, Zhangbei 2nd Village, Ailian Community, Longgang District, Shenzhen, China
Type of appliance	Dimmer
Intended use	Control Device
Brand name	SHYUSC
Type	EU-P3
No. of Sample	1
Serial number	N/A
Electrical data	220-240V~, 50Hz
Date Received	19 Jun 2017
Date Test Conducted	21 Jun 2017 to 23 Jun 2017
Issue Date	07 Jul 2017

Summary of test results

These results are in complied with the stage 1 to 3 in Annex III ecodesign requirements of the EC regulation 1194/2012.

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STANDARD AND ENVIRONMENTAL CONDITION

Test laboratory	Intertek Testing Services Hong Kong Ltd.	
Address	2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.	
Standard applied	<input checked="" type="checkbox"/> EN62442-3 <input type="checkbox"/> Annex III of EC 1194/2012 <input type="checkbox"/> Annex VI of EC 874/2012	
Tested at	230 VAC / 50.0 Hz	
Ambient temp.	25.0°C ±1°C	
THD	<3.0%	
Measuring device	CCD Array Spectrometer	Inventory number: EW-3115
	65 inches Integrating Sphere unit	Inventory number: EW-1335
	AC Power Supply	Inventory number: EW-3283
	Digital Power Meter	Inventory number: EW-3107
	Digital Power Meter	Inventory number: EW-2595
	Calibrated lamp standard	Inventory number: EW-3260
Set-up and circuits used for electrical testing	Refer to separate page (drawing, photo or the like)	

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MEASUREMENT CONDITIONS

1.1 No-Load Power Measurement

The power was measured at the dimmer was operated without load at 230V, 50Hz.

1.2 Standby Power Measurement

The power was measured at the dimmer was operated with connecting the maximum load which is in "OFF" status at 230V, 50Hz.

1.3 Light Output Ratio

When a dimming control device is switched on at its lowest control setting for which the operated lamps consume power, the operated lamps shall emit at least 1 % of their luminous flux at full load.

1.4 Efficiency of The Halogen Lamp Control Gear

$$\text{Efficiency} = \frac{\text{Power consumed by the load with connecting the control gear}}{\text{Power consumed by the load without connecting the control gear}}$$

Where power consumed by the maximum load connected with the control gear mean the output power of dimmer. And power consumed by the maximum load connected without the control gear mean the output power of the lamp without dimmer.

1.5 Test Condition parameters

TEST VOLTAGE

±0.2 % During measurement

TEST FREQUENCY

±0.5 %.

TOTAL HARMONIC CONTENT OF THE TEST VOLTAGE

≤3%(up to and including the 13th harmonic)

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TEST AND VERIFICATION RESULTS

Annex III (Clause)	Lamp Efficacy of Ecodesign Requirements in EC Regulation 1194/2012, Stage 2	Result - Remark	Verdict
1.2a)	No-Load Power: Limit ≤1.0W		N/A
	Efficiency of halogen Lamp Control Gear: Limit 0,91 at 100% Load		N/A

Annex III (Clause)	Lamp Efficacy of Ecodesign Requirements in EC Regulation 1194/2012, Stage 3	Result - Remark	Verdict
1.2b)	No-Load Power: Limit ≤0.5W (Stage 3)		N/A
	Standby Power; Limit: ≤0.5W (Stage 3)		N/A

Annex III (Clause)	Functionality Requirement for Equipment, Designed for Installation Between the Mains and the Lamps, Stage 2	Result - Remark	Verdict
2.3)	When a dimming control device is switched on at its lowest control setting for which the operated lamps consume power, the operated lamps shall emit at least 1 % of their luminous flux at full load.	1.41%	P

Annex III (Clause)	Product Information for Equipment other than Luminaires, Designed for Installation Between the Mains and the Lamps, Stage 2	Result - Remark	Verdict
3.3)	A Warning for equipment no compatibility with any of the energy-saving lamps according to part 2.3 of this Annex.	Showed in instruction manual	P

Annex III (Clause)	Product Information for Lamp Control Gear, Stage 2	Result - Remark	Verdict
3.4a)	Indication that the product is intended to be used as a lamp control gear		N/A
3.4b)	The information that the product may be operated in no-load mode (If applicable)		N/A

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APPENDIX-TEST DATA SHEET

1. No-load Power

Model No.	Sample No.	Voltage (V)	Current (mA)	Power (W)
	1	N/A	N/A	N/A

2. Standby Power

Model No.	Sample No.	Voltage (V)	Current (mA)	Power (W)
	1	N/A	N/A	N/A

3. Light Output Ratio

Maximum Light Output

Model No.	Sample No.	Dimmer And Load				Load			Luminous	
		Voltage (V)	Current (A)	Power (W)	Power Factor	Voltage (V)	Current (mA)	Power (W)	Power Factor	Flux (lm)
EU-P3	1/1	230.0	1.33	292.21	0.957	218.3	1.33	290.18	1.000	5851.92
Average	---	230.0	1.33	292.21	0.957	218.3	1.33	290.18	1.000	5851.92

Minimum Light Output

Model No.	Sample No.	Dimmer And Load				Load			Luminous	
		Voltage (V)	Current (mA)	Power (W)	Power Factor	Voltage (V)	Current (mA)	Power (W)	Power Factor	Flux (lm)
EU-P3	1/1	230.0	737.10	56.52	0.333	75.3	737.30	55.54	1.000	82.44
Average	---	230.0	737.10	56.52	0.333	75.3	737.30	55.54	1.000	82.44

Light Output Ratio

Model No.	Sample No.	Maximum Light Output (lm)	Minimum Light Output (lm)	Light Output Ratio %
EU-P3	1/1	5851.92	82.44	1.41
Average	---	5851.92	82.44	1.41

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APPENDIX-TEST DATA SHEET (Cont'd)

4. Efficiency of the Halogen Lamp Control Gear

Power measurement of the load connected with dimmer

Model No.	Sample No.	Voltage (V)	Current (mA)	Power (W)	Power Factor
	1	N/A	N/A	N/A	N/A

Power measurement of the load connected without dimmer

Model No.	Sample No.	Voltage (V)	Current (mA)	Power (W)	Power Factor
	1	N/A	N/A	N/A	N/A

Model No.	Sample No.	Efficiency
	1	N/A

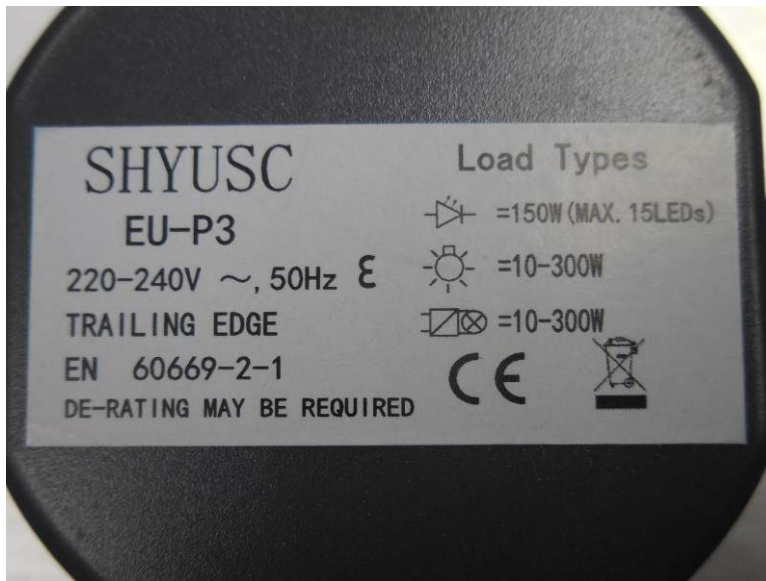
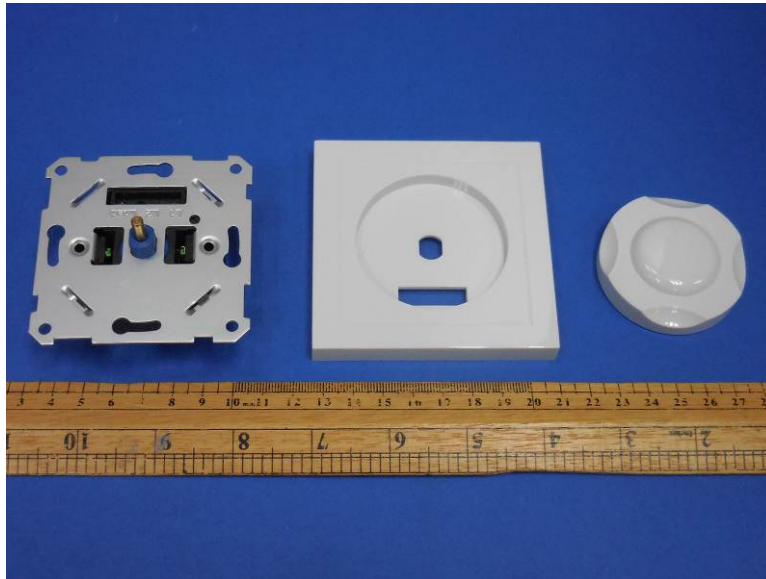
Remarks:

1. Measurements were conducted at voltage 230V, frequency 50Hz and a stable ambient temperature 25°C±1 °C.
2. The load was a 300W filament lamp.

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PHOTO OF THE APPLIANCE:



THE RESULTS ONLY RELATE TO THE ITEM TESTED

Tested by:

Approved by:

Chan Ho Chun, Reeve
Engineer

Lam Chi Keung
Manager

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