

## TEST REPORT

Report No.: HN60018/2014

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Date: July 4, 2014

TOP WIN OPTOELECTRONICS CORP.  
5F-2, NO.120, QIAOHE RD.,  
ZHONGHE DIST., NEW TAIPEI CITY,  
TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: 55W Slite  
Style/ Item No.: TW-PD0555002-D5/ No.1  
Manufacturer/Vendor: Top Win Optoelectronics Corp  
Country of Origin: Taiwan  
Quantity: Total 1 set  
Testing Period: Jun. 26, 2014 to Jun. 30, 2014

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Temperature/ Humidity Cycling Test

Test Results : -PLEASE SEE ATTACHED SHEETS-

Signed for and on behalf of  
SGS TAIWAN Ltd.



Winson Tseng  
Asst. Manager

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## 1. Temperature/ Humidity Cycling Test:

### Test Equipment:

Name	Brand	Model	Serial No.
Programmable Temperature & Humidity Chamber	KSON	THS-D6T-150+LN2	A0128
True RMS Multimeter	Fluke	115	18961911
True RMS Multimeter	Fluke	115	18961912

### Lab Environmental Conditions:

Ambient temperature:  $(25 \pm 3) ^\circ\text{C}$

Ambient humidity:  $(55 \pm 20) \% \text{RH}$

### Test Method/ Specification:

Step	Temperature ( $^\circ\text{C}$ )	Humidity (%RH)	Time (hours)	Sample condition	Measure and record the Voltage and Current Outputs value
1	25→-50	80→—	1	Non-Operating	N/A
2	-50	—	10	Operating	at initial、2 hours、final
3	-50→60	—→90	2	Operating	N/A
4	60	90	10	Operating	at initial、2 hours、final
5	60→25	90→80	1	Non-Operating	N/A

Test cycle: Total 3 cycles

- Examine the appearance of specimen(s) by visual check and perform functional check after this test.
- Function check: Connect the specimen(s) with rated power (110V<sub>AC</sub>) then examine whether the LED function of specimen could be work normally or not.

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**Specimen:**

Style/ Item No.: TW-PD0555002-D5/ No.1

Quantity: Total 1 set

**Test Result:**

1. Examination of Product (Appearance check and functional check):

Check Item Style/ Item No.	Appearance check (visual check)	Functional Check
<b>TW-PD0555002-D5/ No.1</b>	No visible damage	Normal

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Test Result--Continued:

2. Voltage and Current output Measurement:

Style/ Item No.			TW-PD0555002-D5/ No.1	
			Outputs Voltage	Outputs Current
Measurement time				
Cycle 1	-50°C	0 hour	39.96	1.396
		2 hours	39.42	1.402
		10 hours	39.44	1.402
	60°C/90%	0 hour	34.93	1.427
		2 hours	34.85	1.429
		10 hours	34.87	1.429
Cycle 2	-50°C	0 hour	40.01	1.390
		2 hours	39.46	1.403
		10 hours	39.33	1.403
	60°C/90%	0 hour	34.92	1.428
		2 hours	34.80	1.429
		10 hours	34.86	1.429
Cycle 3	-50°C	0 hour	39.97	1.399
		2 hours	39.30	1.403
		10 hours	39.19	1.404
	60°C/90%	0 hour	34.77	1.430
		2 hours	34.80	1.430
		10 hours	34.84	1.430

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Test Photos:

	
<p>1. Appearance of unit under test:</p>	<p>2. Appearance of unit under test:</p>
	
<p>3. Temperature/ Humidity Cycling Test</p>	<p>4. Temperature/ Humidity Cycling Test</p>
	
<p>5. Functional check</p>	

— — — The End of Test Report — — —

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