

Test Results

Report No: KIER-11-0234

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1. Client

- Name : LG Electronics, Inc.
- Address : (150-721) LG Twintower Yoido-Dong, Yongdungpo-Gu Seoul, Korea
- Date of Receipt : May 02. 2011

2. Use of Report : Marketing Sales

3. Items Tested : Silicon Crystalline Photovoltaic Module

- Name of Model : LG220P1C-G2

4. Date of Test : May 18. 2011 ~ June 23. 2011

5. Test method used : IEC 61701 : Salt mist corrosion testing of photovoltaic(PV) modules

6. Testing Environment (Maximum Power Determination)

- Temperature : $(25.0 \pm 0.5) ^\circ\text{C}$, Relative Humidity : $(50.0 \pm 5.0) \% \text{ R.H.}$

7. Test Results : Attachment "Test Results"

Comment 1. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

Affirmation	Prepared by Name : Kyung-Soo, Kim (Signature)	Approved by Name : Gwon-Jong, Yu (Signature)
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July 06. 2011

President of Korea Institute of Energy Research





Test Results

Report No: KIER-11-0234

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Visual Inspection Result

Test Name	Test Criteria	Result
Salt mist corrosion test for Photovoltaic Modules (Model : LG220P1C-G2)	1. Test Condition - Temperature : $35\pm 2^{\circ}\text{C}$ - Salt solution concentration : $5\pm 1\%$ by weight, pH : 6.5 ~ 7.2 2. Visual Inspection - During test period for 28 days, the following are considered to be major visual defects : Corrosion, Delamination, Yellowing, Blister, Bubble, Wrinkle and Crack	Pass

Salt mist corrosion test

	Unit	I-V Measurement Condition (25°C , 1 kW/m^2)			Comment
Test Parameter	sample ID	K11115130001	K11115130001		
	Time	(Initial)	(Final)		
Open Circuit Voltage(Voc)	V	36.4	36.4		
Short Circuit Current(Isc)	A	8.51	8.48		
Maximum Power(Pmax)	W	229.0	227.6		
Maximum Voltage(Vmp)	V	28.7	28.6		
Maximum Current(Imp)	A	7.97	7.97		

Test Results

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- Name : LG Electronics, Inc.
- Address : (150-721) LG Twintower Yoido-Dong, Yongdungpo-Gu Seoul, Korea
- Date of Receipt : May 02. 2011

2. Use of Report : Marketing Sales

3. Items Tested : Silicon Crystalline Photovoltaic Module

- Name of Model : LG225P1C-G2

4. Date of Test : May 18. 2011 ~ June 23. 2011

5. Test method used : IEC 61701 : Salt mist corrosion testing of photovoltaic(PV) modules

6. Testing Environment (Maximum Power Determination)

- Temperature : $(25.0 \pm 0.5) ^\circ\text{C}$, Relative Humidity : $(50.0 \pm 5.0) \% \text{ R.H.}$

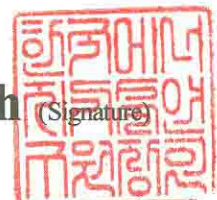
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Test Results

Report No: KIER-11-0235

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Visual Inspection Result

Test Name	Test Criteria	Result
Salt mist corrosion test for Photovoltaic Modules (Model : LG225P1C-G2)	1. Test Condition - Temperature : $35\pm 2^{\circ}\text{C}$ - Salt solution concentration : $5\pm 1\%$ by weight, pH : 6.5 ~ 7.2 2. Visual Inspection - During test period for 28 days, the following are considered to be major visual defects : Corrosion, Delamination, Yellowing, Blister, Bubble, Wrinkle and Crack	Pass

Salt mist corrosion test

	Unit	I-V Measurement Condition (25°C , 1 kW/m^2)			Comment
Test Parameter	sample ID	K11115130002	K11115130002		
	Time	(Initial)	(Final)		
Open Circuit Voltage(Voc)	V	36.6	36.6		
Short Circuit Current(Isc)	A	8.56	8.53		
Maximum Power(Pmax)	W	232.5	230.5		
Maximum Voltage(Vmp)	V	29.2	29.0		
Maximum Current(Imp)	A	7.96	7.93		

Test Results

Report No: KIER-11-0236

Page(1) / (2)Pages

1. Client

- Name : LG Electronics, Inc.
- Address : (150-721) LG Twintower Yoido-Dong, Yongdungpo-Gu Seoul, Korea
- Date of Receipt : May 02. 2011

2. Use of Report : Marketing Sales

3. Items Tested : Silicon Crystalline Photovoltaic Module

- Name of Model : LG230P1C-G2

4. Date of Test : May 18. 2011 ~ June 23. 2011

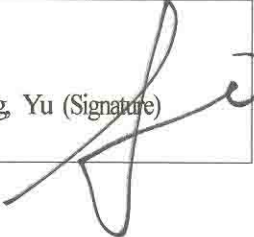
5. Test method used : IEC 61701 : Salt mist corrosion testing of photovoltaic(PV) modules

6. Testing Environment (Maximum Power Determination)

- Temperature : $(25.0 \pm 0.5) ^\circ\text{C}$, Relative Humidity : $(50.0 \pm 5.0) \% \text{ R.H.}$

7. Test Results : Attachment "Test Results"

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Test Results

Report No: KIER-11-0236

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Visual Inspection Result

Test Name	Test Criteria	Result
Salt mist corrosion test for Photovoltaic Modules (Model : LG230P1C-G2)	1. Test Condition - Temperature : $35\pm 2^{\circ}\text{C}$ - Salt solution concentration : $5\pm 1\%$ by weight, pH : 6.5 ~7.2 2. Visual Inspection - During test period for 28 days, the following are considered to be major visual defects : Corrosion, Delamination, Yellowing, Blister, Bubble, Wrinkle and Crack	Pass

Salt mist corrosion test

	Unit	I-V Measurement Condition (25°C , 1 kW/m^2)			Comment
Test Parameter	sample ID	K11115130003	K11115130003		
	Time	(Initial)	(Final)		
Open Circuit Voltage(Voc)	V	36.9	36.9		
Short Circuit Current(Isc)	A	8.64	8.64		
Maximum Power(Pmax)	W	236.5	236.0		
Maximum Voltage(Vmp)	V	29.2	29.5		
Maximum Current(Imp)	A	8.09	8.00		

Test Results

Report No: KIER-11-0237

Page(1) / (2)Pages

1. Client

- Name : LG Electronics, Inc.
- Address : (150-721) LG Twintower Yoido-Dong, Yongdungpo-Gu Seoul, Korea
- Date of Receipt : May 02, 2011

2. Use of Report : Marketing Sales

3. Items Tested : Silicon Crystalline Photovoltaic Module

- Name of Model : LG230M1C-G2

4. Date of Test : May 18, 2011 ~ June 23, 2011

5. Test method used : IEC 61701 : Salt mist corrosion testing of photovoltaic(PV) modules

6. Testing Environment (Maximum Power Determination)

- Temperature : $(25.0 \pm 0.5) ^\circ\text{C}$, Relative Humidity : $(50.0 \pm 5.0) \% \text{ R.H.}$

7. Test Results : Attachment "Test Results"

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Test Results

Report No: KIER-11-0237

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Visual Inspection Result

Test Name	Test Criteria	Result
Salt mist corrosion test for Photovoltaic Modules (Model : LG230M1C-G2)	1. Test Condition - Temperature : $35\pm 2^{\circ}\text{C}$ - Salt solution concentration : $5\pm 1\%$ by weight, pH : 6.5 ~7.2 2. Visual Inspection - During test period for 28 days, the following are considered to be major visual defects : Corrosion, Delamination, Yellowing, Blister, Bubble, Wrinkle and Crack	Pass

Salt mist corrosion test

	Unit	I-V Measurement Condition (25°C , 1 kW/m^2)			Comment
Test Parameter	sample ID	K11115130004	K11115130004		
	Time	(Initial)	(Final)		
Open Circuit Voltage(Voc)	V	37.3	37.3		
Short Circuit Current(Isc)	A	8.73	8.69		
Maximum Power(Pmax)	W	243.6	242.7		
Maximum Voltage(Vmp)	V	30.0	29.8		
Maximum Current(Imp)	A	8.13	8.13		

Test Results

Report No: KIER-11-0238

Page(1) / (2)Pages

1. Client

- Name : LG Electronics, Inc.
- Address : (150-721) LG Twintower Yoido-Dong, Yongdungpo-Gu Seoul, Korea
- Date of Receipt : May 02. 2011

2. Use of Report : Marketing Sales

3. Items Tested : Silicon Crystalline Photovoltaic Module

- Name of Model : LG235M1C-G2

4. Date of Test : May 18. 2011 ~ June 23. 2011

5. Test method used : IEC 61701 : Salt mist corrosion testing of photovoltaic(PV) modules

6. Testing Environment (Maximum Power Determination)

- Temperature : $(25.0 \pm 0.5) ^\circ\text{C}$, Relative Humidity : $(50.0 \pm 5.0) \% \text{ R.H.}$

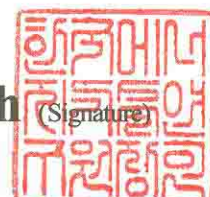
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Test Results

Report No: KIER-11-0238

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Visual Inspection Result

Test Name	Test Criteria	Result
Salt mist corrosion test for Photovoltaic Modules (Model : LG235M1C-G2)	1. Test Condition - Temperature : $35 \pm 2^{\circ}\text{C}$ - Salt solution concentration : $5 \pm 1\%$ by weight, pH : 6.5 ~ 7.2 2. Visual Inspection - During test period for 28 days, the following are considered to be major visual defects : Corrosion, Delamination, Yellowing, Blister, Bubble, Wrinkle and Crack	Pass

Salt mist corrosion test

	Unit	I-V Measurement Condition (25°C , 1 kW/m^2)			Comment
Test Parameter	sample ID	K11115130005	K11115130005		
	Time	(Initial)	(Final)		
Open Circuit Voltage(Voc)	V	37.1	37.2		
Short Circuit Current(Isc)	A	8.75	8.78		
Maximum Power(Pmax)	W	242.6	242.7		
Maximum Voltage(Vmp)	V	29.9	29.5		
Maximum Current(Imp)	A	8.11	8.23		

Test Results

Report No: KIER-11-0239

Page(1) / (2)Pages

1. Client

- Name : LG Electronics, Inc.
- Address : (150-721) LG Twintower Yoido-Dong, Yongdungpo-Gu Seoul, Korea
- Date of Receipt : May 02. 2011

2. Use of Report : Marketing Sales

3. Items Tested : Silicon Crystalline Photovoltaic Module

- Name of Model : LG240M1C-G2

4. Date of Test : May 18. 2011 ~ June 23. 2011

5. Test method used : IEC 61701 : Salt mist corrosion testing of photovoltaic(PV) modules

6. Testing Environment (Maximum Power Determination)

- Temperature : $(25.0 \pm 0.5) ^\circ\text{C}$, Relative Humidity : $(50.0 \pm 5.0) \% \text{ R.H.}$

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Test Results

Report No: KIER-11-0239

Page(2) / (2)Pages

Visual Inspection Result

Test Name	Test Criteria	Result
Salt mist corrosion test for Photovoltaic Modules (Model : LG240M1C-G2)	1. Test Condition - Temperature : $35 \pm 2^{\circ}\text{C}$ - Salt solution concentration : $5 \pm 1\%$ by weight, pH : 6.5 ~ 7.2 2. Visual Inspection - During test period for 28 days, the following are considered to be major visual defects : Corrosion, Delamination, Yellowing, Blister, Bubble, Wrinkle and Crack	Pass

Salt mist corrosion test

	Unit	I-V Measurement Condition (25°C , 1 kW/m^2)			Comment
Test Parameter	sample ID	K11115130006	K11115130006		
	Time	(Initial)	(Final)		
Open Circuit Voltage(Voc)	V	37.2	37.2		
Short Circuit Current(Isc)	A	8.74	8.79		
Maximum Power(Pmax)	W	244.0	243.7		
Maximum Voltage(Vmp)	V	29.9	29.8		
Maximum Current(Imp)	A	8.15	8.17		