

Page 1 of 4 Report No.: SH12040270-001

Test Report

Applicant: Worldwide Energy and Manufacturing USA Co., Ltd

Address: RM1708 C1, Nanfung Tower, 173 Desvoeux RD Central HongKong

Sample Description

Product : PV Module
Brand Name/Trade Name : Amerisolar

Manufacturer : Worldwide Energy and Manufacturing (Nantong) Co., Ltd

Address : No. 88 Qifeng Road, Rucheng Town, Rugao, Jiangsu, P. R. China

Model No. of Manufacturer : AS-6P30-230W

(The types below can be covered: AS-5M18, AS-5M, AS-6M18, AS-6P18,

AS-6M27, AS-6P27, AS-6M30, AS-6P30, AS-6M and AS-6P series)

No. of Samples : 3

Date of receipt of test item : 2012-04-19

Date (s) of performance of test : 2012-04-30 ~ 2012-06-05

Date of issue : 2012-06-06

Testing Laboratory : Intertek Testing Services Shanghai.

Test location : 1-2F, No. 2, Alley 1218, Wan Rong Road, Shanghai, China 200436

Service Requested : Testing to compliance with IEC 61701, First edition, 1995.3

Method : IEC 61701, First edition, 1995.3

IEC 61215:2005 Ed2

Result : See the attached sheets

Conclusion : The testing of submitted sample is **complied** with the above safety

standards/requirements.

Prepared and checked by: Reviewed by

Intertek Testing Services Intertek Testing Services

Shanghai Ltd. Shanghai Ltd.

Gordon Mei Zane Guo

Grordon. Net Ze

Engineer Senior Engineer PV Division PV Division

- The results reported in this test report shall refer only to the sample actually checked and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.

- This report shall not be reported except in full without prior authorization from Intertek Testing Services Shanghai Limited.

 The services are provided subject to the terms and condition of the company, which can be furnished upon request.



Page 2 of 4
Test Report

Report No.: SH12040270-001

GENERAL INFORMATION							
Test item particulars:							
Accessories and detachable parts included in the evaluation	-						
Options included:	-						
Possible test case verdicts:	-						
Abbreviations used in the report:							
Imp – Maximum power current	Voc – Open circuit voltage						
Isc - Short circuit current	FF – Fill Factor						
Pmp – Maximum power	α – Current temperature coefficient						
Vmp – Maximum power voltage	β – Voltage temperature coefficient						
STC – Standard Test Conditions	δ – power temperature coefficient						
Possible test case verdicts:							
- test case does not apply to the test object:	N/A						
- test object does meet the requirement:	Pass (P)						
- test object does not meet the requirement:	Fail (F)						

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

[&]quot;(see appended table)" refers to a table appended to the report.



Supplementary information:N/A

Page 3 of 4 **Test Report**

Report No.: SH12040270-001

Initial	TABLE: Visual inspection (Initial)	_
Sample #	Nature and position of initial findings – comments or attach photos	_
669081103 100905	No findings	Р
669081102 201209	No findings	
669081102 201208	No findings	

Initial	TABLE: Maximum power determination (initial)							
Module temperature [℃]								_
Irradiance [W	Irradiance [W/m²) 1000							_
Sample	#	Voc [V]	Vn	np [V]	Isc [A]	Imp [A]	Pn	np [W]
6690811031	00905	36.93	3	0.07	8.39	7.69	2:	30.32
6690811022	01209	36.92	3	0.06	8.41	7.65	2:	30.08
6690811022	01208	36.93	3	0.17	8.35	7.64	2:	30.48
Supplementary information: N/A								

Initial TABLE: Insulation test (in			nitial)		_	
Test Voltage applied [V]:		:	1000		_	
Sample #	Measured	Required	Dielectric breakdown	Result		
	$M\Omega$	MΩ	Yes (description)	No	_	
669081103 100905	>100	40.0		No	Р	
669081102 201209	>100	40.0		No	Р	
669081102 201208	>100	40.0		No	Р	
Supplementary information: N/A						

TABLE: SALT MIST CORROSION TEST				
Total salt mist time				
Supplementary information: The test method used is IEC 60068-2-11; the NaCl solution PH = 6.7.				
Visual inspection after Salt Mist test			_	
Sample # Nature and position of initial findings – comments or attach photos			_	



Supplementary information: N/A

Page 4 of 4 **Test Report** Report No.: SH12040270-001

6690811031 00905	· ·							Р		
6690811022 No findings and no abnormal parts 01209										
6690811022 No findings and no abnormal parts 01208										
Supplementa	Supplementary information: N/A									
Maximum po	Maximum power determination after Salt Mist test									
Module temp	perature	[℃]		:	25			_		
Irradiance [W	V/m²)			:	1000			1		
Sample	#	Voc [\	/]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]			
6690811031	00905	36.90)	30.06	8.39	7.69	231.18			
6690811022	669081102201209 36.77 30.01		30.01	8.39	7.62	228.69				
669081102201208 36.77 30.22			8.39	7.65	231.19					
Pmp degradation after this test [%] ≤ 5%:] ≤ 5%:	+0.3/ -0.6/+0.3			Р		
Insulation test after Salt Mist test								Р		
Test Voltage applied [V]:				:	1000					
Sample #	Sample # Measured Required			Dielectric breakdown			Result			
	М	Ω		ΜΩ	Yes (description) No		Р			
66908110 3100905	>1	>100		40.0	No		Р			
66908110 2201209	>100			40.0	No		Р			
66908110 2201208			No			Р				