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Test Report

Applicant: Address:		ar Power Co., Ltd uang Road, Hi-Tech Industrial Development Zone, Ningbo, Zhejiang 315040				
Sample Description Product Brand Name/Trade Name		: PV Module : Sun Earth				
Manufacturer		: Sun Earth Solar Power Co., Ltd				
Model No. of Ma	anufacturer	: TPB156X156-72-P-280, TDB125X125-72-P-180				
No. of Samples		:2				
Date of receipt of	of test item	: 2011-8-23				
Date (s) of perfo	ormance of test	: 2011-9-6 ~ 2011-9-23				
Date of issue		: 2011-9-29				
Testing Laborat	ory	: Intertek Testing Services Shanghai Limited.				
Test location		: 1-2F, No. 2, Alley 1218, Wan Rong Road, Shanghai, China 200436				
Service Reques	sted	: Testing to compliance with IEC 61701, First edition, 1995.3				
Method		: IEC 61701, First edition, 1995.3 IEC 61215, Second Edition, 2005.04				
Result		: See the attached sheets				
Conclusion		: The testing of submitted sample is complied with the above safety standards/requirements.				
*****	*****	************** End of page ************************************				
Prepared and Intertek Testin Shanghai Ltd.	•	Reviewed by Intertek Testing Services Shanghai Ltd.				
be deemed to	refer to bulk fro	Zane Guo Lead Engineer PV Division st report shall refer only to the sample actually checked and shall not refer or om which such a sample may be said to have been obtained. ed except in full without prior authorization from Intertek Testing Services				

- 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.



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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. "(see appended table)" refers to a table appended to the report.

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



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Initial	TABLE: Visual inspection (Initial)				
Sample #	Nature and position of initial findings – comments or attach photos	—			
G1120138044	No findings	Р			
F1180064366	No findings	Р			
Supplementary information:N/A					

Initial T	TABLE: Maximum power determination (initial)						
Module temperature [°C]: 25							
Irradiance [W/r	n²)	:	1000				_
Sample #	Voc [V]	Vr	np [V]	lsc [A]	Imp [A]	Pn	np [W]
G112013804	44 44.50	3	5.36	5.64	5.20	1	83.87
F118006436	6 44.51	3	5.62	8.58	7.73	2	75.34
Supplementary	vinformation: N/A	•		•	•	•	

Supplementary information: N/A

Initial	TABLE: Insulation test (initial)				—	
Test Voltage applied [V]			1000		-	
Sample #	Measured	Required	Dielectric breakdown		Result	
	MΩ	MΩ	Yes (description)	No	-	
G1120138044	6109	31.33		No	Р	
F1180064366	6344	21.00		No	Р	
Supplementary information: Size of module [m ²] 1.27664/1.9046						

TABLE: SALT MIST CORROSION TEST						Р
Total salt mist time 96 hours						—
Supplementary information: N/A						
_Visual inspection a	fter Salt Mis	test				—
Sample #	Nature and	Nature and position of initial findings – comments or attach photos				
G1120138044	No findings and no abnormal parts					Р
F1180064366	No findings and no abnormal parts					Р
Supplementary info	Supplementary information: N/A					
Maximum power determination after Salt Mist test					Р	
Module temperature	9[℃]		25			_
Irradiance [W/m ²):			1000			—
Sample #	Voc [V]	Vmp [V]	Isc [A] Imp [A] F			Pmp [W]



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G1120138044	44.48	35.30	5.83	5.17	' 18	
F1180064366	44.41	34.72	8.54	7.87 273.50		
Pmp degradation af	ter this test [%] ≤ 5%:	-0.82%/-0.67%			Р
Insulation test after	Salt Mist tes	st				Р
Test Voltage applied	d [V]	:	1000			_
Sample #	Measured	Required	Dielectric breakdown			Result
	MΩ	MΩ	Yes (d	Р		
G1120138044	6203	31.33	No			Р
F1180064366	6532	21.00		Р		
Supplementary info	rmation: Size	e of module [m ²]	1.27664/1.9046			