



TEST DISCIPLINE: ELECTRONICS

General details

Customer / Applicant	BLUEBIRD SOLAR PRIVATE LIMITED 70, FIRST FLOOR, RAJASTHANI UDYOG NAGAR, INDUSTRIAL AREA, DELHI 110033, INDIA		
Manufacturer	BLUEBIRD SOLAR PRIVATE LIMITED 70, FIRST FLOOR, RAJASTHANI UDYOG NAGAR INDUSTRIAL AREA, DELHI 110033, INDIA		
Program	NABL		
Test Lab Location	(a) UL Bangalore	Refer to Cover page for the UL address	
Item Under Test	Multi-Crystalline Photovoltaic Module		
Model	"Multi crystalline PV Module- Model BBS300 (300W)		
Number of Samples	One sample of the PV module BBS300 Has been submitted by the applicant for testing. Represented the below samples BBS300, BBS290, BBS280, BBS270, BBS250, BBS240, BBS230, BBS220, BBS210, BBS200, BBS190, BBS150, BBS140, BBS120, BBS110, BBS100, BBS080, BBS075, BBS040, BBS020, BBS010, BBS005, BBS003		
UL Sample Identification	UL Sample no. 254412	Refer Summary of Test results for multiple samples	
Manufacturer Serial Number (if any)	Serial No. BBS6F72P160230005		
Condition of IUT on receipt	Good		
Date of Receipt	18 April 2016		
Applicable Standard	IEC 61701- Standard for SALT MIST CORROSION TESTING OF PHOTOVOLTAIC (PV) MODULES, First Edition, Issued on 1995		
Date of Testing (Start date)	19 April 2016	End Date	25 April 2016
UL general^ ambient condition	Temperature in °C		25 +3/-5°C
	Relative humidity in %		45-70 %
Date of Reporting	27 June 2013		
Test In-charge	Prathap R		

 Moumita Debnath Project Engineer	 Ashish Mathur Engineering Manager
Reviewed by	Authorized signatory

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General Remarks

TESTING OF PHOTOVOLTAIC (PV) MODULES as per IEC 61701, First Edition, Issued on 1995. According to the applicant declaration, Wattage of PV Module of lower side using the same Aluminum frame section and anodizing process has been include in the Report.

AL Frame details:

1. Frame manufacturer Name: **Global Aluminum Private Limited.**
5-2-196/1, Distillery Rd, Hyderbasthi, Rani Gunj,
Secunderabad, Telangana 500003,
Type extruded AL frame, Grade 6063-T6
2. Anodizing process: Sulfuric Acid Anodizing Process with Silver Mat Finish
3. Anodizing thickness (Thickness of Aluminum Coating in microns): 20 microns

Description of Item under Test (IUT)

1 Sample of crystalline photovoltaic module, Model BBS300 was sent for testing representing the rest of the modules listed in cover page with same frame and anodizing process.

Summary of Test Results

Test No.	Test Name	Test Parameter	Standard & Clause Number	UL Sample Identification	Result
1	Visual Inspection Test (Before Salt Mist Test)	The Visual inspection before Salt mist test __Did not__ exhibit any mechanical deterioration or corrosion on solar modules.	IEC 61215, Ed. 2 clause 10.1	254412	P
2	Maximum Power Determination (Before Salt Mist Test)	Maximum power attained:- 309.971Watt	IEC 61215, Ed. 2 clause 10.2		P
3	Insulation Test (Before Salt Mist Test)	4800 MΩ	IEC 61215, Ed. 2 clause 10.3		P
4	Salt Mist Test (96 hours)	No mechanical deterioration or corrosion of module components was observed	IEC 61701, Ed. 1		P
5	Visual Inspection Test (After Salt Mist Test)	The Visual inspection after Salt mist test _did not__ exhibit any mechanical deterioration or corrosion on solar modules.	IEC 61215, Ed. 2 clause 10.1		P
6	Maximum Power Determination (After Salt Mist Test)	Maximum power attained:- 309.952Watt	IEC 61215, Ed. 2 clause 10.2		P
7	Insulation Test (After Salt Mist Test)	>4000MΩ	IEC 61215, Ed. 2 clause 10.3		P

P: Meets the requirements F: Does not meet the requirement NA: Not applicable

Reviewed by signature:
12-LO-F0851, Issue 4.0