



TC- 6168



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SUMMARY OF TEST REPORT No. 4789578259-BIS-S1, DATED(mm/dd/yyyy): 11/27/2020

ULR No. TC616820100000713F

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TEST FORMAT AS PER IS 14286: 2010

1. Name of manufacturer:	BLUEBIRD SOLAR PRIVATE LIMITED,
2. Product:	Mono Perc and Poly Crystalline Photovoltaic (PV) Modules
3. Models:	<p><b>Monocrystalline</b></p> <p><b>BBS24MF400(Representative Model)</b></p> <p>72 Cell family: BBS24MF350, BBS24MF355, BBS24MF360, BBS24MF365, BBS24MF370, BBS24MF375, BBS24MF380, BBS24MF385, BBS24MF390, BBS24MF395 (series model)</p> <p>66 Cell family: BBS24MF315, BBS24MF320, BBS24MF325, BBS24MF330, BBS24MF335, BBS24MF340, BBS24MF345, BBS24MF350 (series model)</p> <p>60 Cell family: BBS24MF290, BBS24MF295, BBS24MF300, BBS24MF305, BBS24MF310, BBS24MF315, BBS24MF320(series model)</p> <p>54 Cell family: BBS24MF260, BBS24MF265, BBS24MF270, BBS24MF275, BBS24MF280, BBS24MF285, BBS24MF290(series model)</p> <p>48 Cell family: BBS24MF230, BBS24MF235, BBS24MF240, BBS24MF245, BBS24MF250, BBS24MF255(series model)</p> <p>42 Cell family: BBS24MF200, BBS24MF205, BBS24MF210, BBS24MF215, BBS24MF220, BBS24MF225(series model)</p> <p>36 Cell family: BBS12MF175, BBS12MF180, BBS12MF185, BBS12MF190, BBS12MF195 (series model)</p> <p>32 Cell family: BBS12MF150, BBS12MF155, BBS12MF160, BBS12 MF165, BBS12MF170(series model)</p> <p>144 Cell family: BBS24MC350, BBS24MC355, BBS24MC360, BBS24MC365, BBS24MC370, BBS24MC375, BBS24MC380, BBS24MC385 (series model)</p> <p>120 Cell family: BBS24MC290, BBS24MC295, BBS24MC300, BBS24MC305, BBS24MC310, BBS24MC315, BBS24MC320(series model)</p> <p><b>Poly Crystalline</b></p> <p>72 Cell family: BBS24F315, BBS24F320, BBS24F325, BBS24F330, BBS24F335, BBS24F340 (series model)</p> <p>66 Cell family: BBS24F290, BBS24F295, BBS24F300, BBS24F305, BBS24F310 (series model)</p> <p>60 Cell family: BBS24F260, BBS24F265, BBS24F270, BBS24F275, BBS24F280, BBS24F285 (series model)</p> <p>54 Cell family: BBS24F230, BBS24F235, BBS24F240, BBS24F245, BBS24F250, BBS24F255 (series model)</p> <p>48 Cell family: BBS24F200, BBS24F205, BBS24F210, BBS24F215, BBS24F220, BBS24F225 (series model)</p> <p>42 Cell family: BBS12F175, BBS12F180, BBS12F185, BBS12F190,</p>

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	BBS12F195 (series model)  36 Cell family: BBS12F150, BBS12F155, BBS12F160, BBS12F165, BBS12F170(series model)  36 Cut Cell family: BBS12C40, BBS12C45, BBS12C50, BBS12C55, BBS12C60, BBS12C65, BBS12C70, BBS12C75, BBS12C80, BBS12C85, BBS12C90, BBS12C95, BBS12C100, BBS12C105, BBS12C110, BBS12C115, BBS12C120, BBS12C125, BBS12C130, BBS12C135, BBS12C140(series model)		
4. Model differences provided	YES		
5. Model differences verified as per MNRE Guidelines for series formulation	YES		
6. Test Results:			
SL. No.	TEST REQUIREMENTS	CLAUSE	VERDICT
1	Marking	4	P
2	Visual Inspection	10.1	P
3	Maximum Power Determination	10.2	P
4	Insulation Test	10.3	P
5	Measurement of Temperature Coefficients.	10.4	P
6	Measurement of NOCT	10.5	P
7	Performance at STC and NOCT	10.6	P
8	Performance at low irradiance.	10.7	P
9	Outdoor exposure test	10.8	P
10	Hot-spot endurance test	10.9	P
11	UV preconditioning	10.10	P
12	Thermal cycling test	10.11	P
13	Humidity freeze test	10.12	P
14	Damp heat test	10.13	P
15	Robustness of termination test	10.14	P
16	Wet leakage current test	10.15	P
17	Mechanical load test	10.16	P
18	Hail test	10.17	P
19	Bypass diode thermal test	10.18	P



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**General Information:**

1. The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC/UL standards (where IS standards are not available) are also provided in the list of critical component.

**CONCLUSION:**

1. Sample meets all relevant requirements of IS 14286: 2010:Yes
- ~~2. Sample fails to meet the following test requirements:~~

I, hereby, undertake that the verdict stated in the test reports for all the tests matches with the test results. The sample meets all relevant requirements of IS 14286: 2010 ~~./does not meet the requirements stated above at 2) of conclusion.~~ If any deviation is found, suitable punitive action may be taken by BIS.

**Date(mm/dd/yyyy): 11/27/2020**

**N. Srimathy** Digitally signed by N. Srimathy  
Date: 2020.11.27 20:27:56  
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**(Signature of Authorized person)**