



TC- 6168



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SUMMARY OF TEST REPORT No. 4790378653.1.1-BIS-S3 DATED (mm/dd/yyyy): 08/30/2022

ULR No: TC61682210000549F

(Number of pages in test report: Page no. 01 to 69)

TEST FORMAT AS PER IS/IEC 61730-2:2004 +A1:2017

1. Name of manufacturer:	Novasys Greenergy Private Limited
2. Product:	Crystalline Silicon Photovoltaic (PV) Modules
3. Model:	<p><b><u>Mono Crystalline (PERC):</u></b>  <b>NOVA550MP144 (Representative Model)</b></p> <p><b><u>Series Models:</u></b>  <b><u>144 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA545MP144, NOVA540MP144,  NOVA535MP144, NOVA530MP144,  NOVA525MP144, NOVA520MP144,  NOVA515MP144, NOVA510MP144,  NOVA505MP144, NOVA500MP144,  NOVA495MP144</p> <p><b><u>132 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA505MP132, NOVA500MP132,  NOVA495MP132, NOVA490MP132,  NOVA485MP132, NOVA480MP132,  NOVA475MP132, NOVA470MP132,  NOVA465MP132, NOVA460MP132,  NOVA455MP132</p> <p><b><u>120 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA460MP120, NOVA455MP120,  NOVA450MP120, NOVA445MP120,  NOVA440MP120, NOVA435MP120,  NOVA430MP120, NOVA425MP120,  NOVA420MP120, NOVA415MP120</p> <p><b><u>108 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA415MP108, NOVA410MP108,  NOVA405MP108, NOVA400MP108,  NOVA395MP108, NOVA390MP108,  NOVA385MP108, NOVA380MP108,  NOVA375MP108</p> <p><b><u>96 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA365MP96, NOVA360MP96,  NOVA355MP96, NOVA350MP96,  NOVA345MP96, NOVA340MP96,  NOVA335MP96, NOVA330MP96,  NOVA325MP96</p> <p><b><u>72 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA275MP72, NOVA270MP72,  NOVA265MP72, NOVA260MP72,</p>

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		NOVA255MP72, NOVA250MP72, NOVA245MP72	
4. Model differences provided (if applicable): Yes/No		YES	
5. Model differences verified as per MNRE Guidelines for series formulation: Yes/No		YES	
6. Test Results:			
SL. NO.	TEST REQUIREMENTS	CLAUSE	VERDICT
1	MST 01 – Visual inspection	10.1	P
2	MST 11 – Accessibility test	10.2	P
3	MST 12 – Cut susceptibility test	10.3	P
4	MST 13 – Ground continuity test	10.4	P
5	MST 14 – Impulse voltage test	10.5	P
6	MST 16 – Dielectric withstand test	10.6	P
7	MST 21 – Temperature test	10.7	P
8	MST 23 – Fire test	10.8	P
9	MST 26 – Reverse current overload Test	10.9	P
10	MST 32 – Module breakage test	10.10	P
11	MST 17 – Wet leakage current test :	MST 17	P
12	MST 22 – Hot-spot test	MST 22	P
13	MST 34 – Mechanical load test	MST 34	P
14	MST 51a – Thermal cycling test (TC200)	MST 51a	P
15	MST 51b – Thermal cycling test (TC50) :	MST 51b	P
16	MST 52 – Humidity freeze test :	MST 52	P
17	MST 53 – Damp heat test :	MST 53	P
18	MST 54 – UV preconditioning test :	MST 54	P
19	Robustness of Terminations test	10.14	P
20	Bypass diode thermal test	10.18	P
21	Maximum Power determination	10.2	P
-	Component tests	-	-
19	Partial discharge test	As per test report submitted by manufacturer. Partial Discharge rating has	P

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		been verified for the back sheet (Renewsys India Private Limited, Type: Preserv 1-300 WD)	
20	Conduit bending test	MST 33 As conduit bending is not attached with part of Junction Box, so we didn't perform the testing.	N/A
21	Terminal box knockout test	MST 44 As terminal box is not attached with part of Junction Box, so we didn't perform the testing.	N/A

**General Information:**

1. The conformity certificates of critical components are verified to ensure complete testing of product 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/IEC 61730-2:2004 +A1:2017: 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/IEC 61730-2:2004 +A1:2017: ~~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): 08/30/2022**

**(Signature of Authorized person)**

Test Report issued under the responsibility of:

<b>TEST REPORT</b> <b>IS/IEC 61730-2:2004+A1:2017</b> <b>PV Module Safety Qualification</b> <b>Part 2: Requirements for testing</b>	
Report Number. ....:	4790378653.1.1-BIS-S3
ULR No. ....:	TC61682210000549F
Test Request No. ....:	SC22SPI00370
Bar code .....	106359CRS
Encoded Sample code.....:	22EF513N
Date of issue.....(mm/dd/yyyy):	08/30/2022
Total number of pages.....	69
Name of Testing Laboratory preparing the Report.....:	UL India Pvt. Ltd. Laboratory Building, Kalyani Platina Campus, Survey. No. 129/4, EPIP Zone, Phase II, Whitefield, IN-560066, Bangalore, India
Applicant's name .....	Novasys Greenergy Private Limited
Address .....	KHASRA NO. 185, MOUZA: MAHALGAON, TAHSIL-KAMPTEE, NAGPUR-441202, MAHARASHTRA, India
Test specification:	
Standard .....	IS/IEC 61730-2:2004 (First Edition) +A1:2017
Test procedure .....	IS/IEC 61730-2:2004 (First Edition) +A1:2017
Non-standard test method .....	N/A
Test Report Form No. ....:	IS/IEC61730-2_V1.0
Test Report Form(s) Originator ....:	BIS
Master TRF.....:	Dated 19.02.2018
<b>General disclaimer:</b> The test results presented in this report relate only to the object tested.	

<b>Test item description</b> .....	Photovoltaic (PV) Module(s)
<b>Trade Mark</b> .....	
<b>Manufacturer</b> .....	Novasys Greenergy Pvt Ltd.
<b>Address</b> .....	KHASRA NO. 185, MOUZA-MAHALGAON, TAHSIL-KAMPTTEE, NAGPUR MAHARASHTRA 441202
<b>Model/Type reference</b> .....	<p><b><u>Mono Crystalline (PERC):</u></b>  <b>NOVA550MP144 (Representative Model)</b></p> <p><b><u>Series Models:</u></b></p> <p><b><u>144 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA545MP144, NOVA540MP144, NOVA535MP144,  NOVA530MP144, NOVA525MP144, NOVA520MP144,  NOVA515MP144, NOVA510MP144, NOVA505MP144,  NOVA500MP144, NOVA495MP144</p> <p><b><u>132 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA505MP132, NOVA500MP132, NOVA495MP132,  NOVA490MP132, NOVA485MP132, NOVA480MP132,  NOVA475MP132, NOVA470MP132, NOVA465MP132,  NOVA460MP132, NOVA455MP132</p> <p><b><u>120 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA460MP120, NOVA455MP120, NOVA450MP120,  NOVA445MP120, NOVA440MP120, NOVA435MP120,  NOVA430MP120, NOVA425MP120, NOVA420MP120,  NOVA415MP120</p> <p><b><u>108 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA415MP108, NOVA410MP108, NOVA405MP108,  NOVA400MP108, NOVA395MP108, NOVA390MP108,  NOVA385MP108, NOVA380MP108, NOVA375MP108</p> <p><b><u>96 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA365MP96, NOVA360MP96,  NOVA355MP96, NOVA350MP96,  NOVA345MP96, NOVA340MP96,  NOVA335MP96, NOVA330MP96,  NOVA325MP96</p> <p><b><u>72 Half-cut Cell Family- 182mm Cell (1500V System voltage):</u></b>  NOVA275MP72, NOVA270MP72,  NOVA265MP72, NOVA260MP72,  NOVA255MP72, NOVA250MP72,  NOVA245MP72</p>
<b>Ratings</b> .....	<p>Maximum System Voltage= 1500V</p> <p>Maximum Series Fuse rating= 25A</p> <p>For specific electrical ratings Refer to Annex 3</p>

<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>Testing Laboratory:</b>	
<b>Testing location/address.....:</b>		UL INDIA PVT LTD LABORATORY BUILDING, KALYANI PLATINA CAMPUS, SURVEY NO 129/4, EPIP ZONE, PHASE-II, WHITEFIELD, IN-560066, BANGALORE, INDIA
<b>Tested by (name + signature) .....</b>		Viswanathan K
<b>Approved by (name + signature).....:</b>		Srimathy N
<b>Issued by (name + signature) .....</b>		Supratik Ghosh