



HI PHYSIX
testing & calibration laboratory

HI PHYSIX LABORATORY INDIA PVT. LTD.

B-32/1/2, MIDC, Ranjangaon, Pune, Maharashtra

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SUMMARY OF TEST REPORT

TEST REPORT NO: HPLI/Test/2306027801/01

DATE: 06/11/2023

(Total Number of Pages in Test Report: 72)

TEST FORMAT AS PER IS 14286: 2010

1. Name of the Manufacturer: Novasys Greenergy Private Limited

2. Product: Crystalline silicon terrestrial photovoltaic (PV) modules.

3. Model: NOVA550MP144 (Representative model & Tested Model-BOM1 & BOM2)

144 Half-cut Cell: NOVA545MP144, NOVA540MP144, NOVA535MP144, NOVA530MP144, NOVA525MP144, NOVA520MP144, NOVA515MP144, NOVA510MP144, NOVA505MP144, NOVA500MP144, NOVA495MP144 (Series models)

132 Half-cut Cell: NOVA505MP132, NOVA500MP132, NOVA495MP132, NOVA490MP132, NOVA485MP132, NOVA480MP132, NOVA475MP132, NOVA470MP132, NOVA465MP132, NOVA460MP132, NOVA455MP132 (Series models)

120 Half-cut Cell: NOVA460MP120, NOVA455MP120, NOVA450MP120, NOVA445MP120, NOVA440MP120, NOVA435MP120, NOVA430MP120, NOVA425MP120, NOVA420MP120, NOVA415MP120 (Series models)

108 Half-cut Cell: NOVA415MP108, NOVA410MP108, NOVA405MP108, NOVA400MP108, NOVA395MP108, NOVA390MP108, NOVA385MP108, NOVA380MP108, NOVA375MP108 (Series models)

96 Half-cut Cell: NOVA365MP96, NOVA360MP96, NOVA355MP96, NOVA350MP96, NOVA345MP96, NOVA340MP96, NOVA335MP96, NOVA330MP96, NOVA325MP96 (Series models).

72 Half-cut Cell: NOVA275MP72, NOVA270MP72, NOVA265MP72, NOVA260MP72, NOVA255MP72, NOVA250MP72, NOVA245MP72 (Series models).

4. Model differences provided (if applicable): Yes

5. Model differences verified as per MNRE Guidelines for series approval: Yes

6. Test Results:

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
1	Marking	4.0	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

(Signature)
Ashutosh Pathak
(Chief Technical Manager)



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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

General Information:

1. The conformity certificates of components/parts wherever applicable are verified to ensure complete testing of products under test and details regarding harmonized IEC standards (where IEC standards are not available) are also provided in the list of components/parts (description of module construction) wherever applicable.


CONCLUSION:

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

I, hereby undertake that the verdict stated in the test reports for all the test matches with the test results.
The sample meets/does not meet all relevant requirements stated above of IS 14286: 2010.

Remark: This summary issued along with test report no. HPLI/Test/2306027801/01 dated 06/11/2023 on the basis of earlier tested vide main test report No. 4790378653.1.1-BIS-S1 dated 30/08/2023 issued by UL India Pvt. Ltd., Bangalore & test report No. MCIND/2023/LB/049.V1 dated 02/08/2023 issued by Mitsui Chemicals India Private Limited.

Date: 06/11/2023


Ashutosh Pathak
(Chief Technical Manager)

(Signature of Authorized person with Stamp)