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SUMMARY OF TEST REPORTS NO. 4790378653.1.1-BIS-S1 DATED(mm/dd/yyyy): 08/30/2022 ULR No: TC61682210000547F

(Number of pages in test report: Page no. 01 to 90) TEST FORMAT AS PER IS 14286 : 2010 (First Revision)

| | TEST FORMAT AS PER IS 14286 : 2010 (First Revision) | | | | | |
|--|---|--|--|--|--|--|
| 1. Name of manufacturer: | Novasys Greenergy Private Limited | | | | | |
| 2. Product: | Crystalline Silicon Photovoltaic (PV) Modules | | | | | |
| 3. Models: | Mono Crystalline (PERC): | | | | | |
| | NOVA550MP144 (Representative Model) | | | | | |
| | NOVA550MP144 (Representative Model) | | | | | |
| | 96 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA365MP96, NOVA360MP96, NOVA355MP96, NOVA350MP96, | | | | | |
| | NOVA345MP96, NOVA340MP96, NOVA335MP96, NOVA330MP96, NOVA325MP96 | | | | | |
| | 72 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA275MP72, NOVA270MP72, NOVA265MP72, NOVA260MP72, NOVA255MP72, NOVA250MP72, NOVA245MP72 | | | | | |
| 4. Model differences provided | YES | | | | | |
| Model differences verified as per MNRE Guidelines for series formulation | YES | | | | | |
| 6. Test Results: | | | | | | |





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| SL | TEST REQUIREMENTS | CLAUSE | VERDICT |
|----|--|--------|---------|
| 1 | Marking | 4 | Р |
| 2 | Visual Inspection | 10.1 | Р |
| 3 | Maximum Power Determination | 10.2 | Р |
| 4 | Insulation Test | 10.3 | Р |
| 5 | Measurement of Temperature Coefficients. | 10.4 | Р |
| 6 | Measurement of NOCT | 10.5 | Р |
| 7 | Performance at STC and NOCT | 10.6 | Р |
| 8 | Performance at low irradiance. | 10.7 | Р |
| 9 | Outdoor exposure test | 10.8 | Р |
| 10 | Hot-spot endurance test | 10.9 | Р |
| 11 | UV preconditioning | 10.10 | Р |
| 12 | Thermal cycling test | 10.11 | Р |
| 13 | Humidity freeze test | 10.12 | Р |
| 14 | Damp heat test | 10.13 | Р |
| 15 | Robustness of termination test | 10.14 | Р |
| 16 | Wet leakage current test | 10.15 | Р |
| 17 | Mechanical load test | 10.16 | Р |
| 18 | Hail test | 10.17 | Р |
| 19 | Bypass diode thermal test | 10.18 | Р |

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 (First Revision): 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(First Revision)/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:

TEST REPORT

IS 14286: 2010 First Revision

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

- Design Qualification and Type Approval

| - Design Quanneation and Type Approval | | | | |
|--|--|--|--|--|
| Report Reference No | 4790378653.1.1-BIS-S1 | | | |
| ULR No: | TC61682210000547F | | | |
| Test Request No: | SC22SPI00364 | | | |
| Bar code | 106338CRS | | | |
| Encoded Sample code | 22EC5A0N | | | |
| Date of issue(mm/dd/yyyy): | 08/30/2022 | | | |
| Total number of pages | 90 | | | |
| | | | | |
| Testing Laboratory | UL India Pvt. Ltd. | | | |
| Address: | 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 14286: 2010 | | | |
| Test procedure: | IS 14286: 2010 | | | |
| Non-standard test method:: | N/A | | | |
| Test Report Form No: | IS 14286_V1.0 | | | |
| Test Report Form Originator: | BIS | | | |
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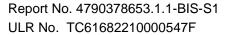
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| Test item description: | Photovoltaic (PV) Module(s) | | |
|------------------------|--|--|--|
| Trade Mark: | Every day is a SUN day | | |
| Manufacturer: | , | | |
| | KHASRA NO. 185, MOUZA-MAHALGAON, TAHSIL-KAMPTEE, NAGPUR MAHARASHTRA 441202 | | |
| Model/Type reference: | Mono Crystalline (PERC): NOVA550MP144 (Representative Model) | | |
| | Series Models: 144 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA545MP144, NOVA540MP144, NOVA535MP144, NOVA530MP144, NOVA525MP144, NOVA520MP144, NOVA515MP144, NOVA510MP144, NOVA505MP144, NOVA500MP144, NOVA495MP144 132 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA505MP132, NOVA500MP132, NOVA495MP132, NOVA490MP132, NOVA455MP132, NOVA465MP132, NOVA460MP132, NOVA455MP132 120 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA460MP120, NOVA445MP120, NOVA450MP120, NOVA445MP120, NOVA440MP120, NOVA435MP120, NOVA430MP120, NOVA425MP120, NOVA420MP120, NOVA415MP120 108 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA415MP108, NOVA410MP108, NOVA405MP108, NOVA400MP108, NOVA395MP108, NOVA390MP108, NOVA385MP108, NOVA380MP108, NOVA375MP108 | | |
| | 96 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA365MP96, NOVA360MP96, NOVA355MP96, NOVA350MP96, NOVA345MP96, NOVA340MP96, NOVA335MP96, NOVA330MP96, NOVA325MP96 | | |
| | 72 Half-cut Cell Family- 182mm Cell (1500V System voltage): NOVA275MP72, NOVA270MP72, NOVA265MP72, NOVA260MP72, NOVA255MP72, NOVA250MP72, NOVA245MP72 | | |
| Ratings: | : Maximum System Voltage= 1500V Maximum Series Fuse rating= 25A For specific electrical ratings Refer to Annex 5 | | |







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| Testing procedure and testing location: | | | | | |
|---|-------------------|--|--|--|--|
| ☐ Testing Laboratory: | UL India Pvt. Ltd | UL India Pvt. Ltd | | | |
| Testing location/ address: | | Laboratory Building, Kalyani Platina Campus, Survey. No. 129/4, EPIP Zone, Phase II, Whitefield, IN-560066, Bangalore, India | | | |
| Tested by (name + signature): | Viswanathan K | | | | |
| Approved by (name + signature).: | Srimathy N | | | | |
| Issued by (name + signature): | Supratik Ghosh | | | | |