



TC-5100

SUMMARY OF TEST REPORT

TEST REPORT NO: HPLI/Test/2303080201/03

DATE: 01/06/2023

(Total Number of Pages in Test Report: 64)

TEST FORMAT AS PER IS/IEC 61730-2:2004 (First Edition) +A1:2017

1. Name of the Manufacturer: Icon Solar En Power Technologies Private Limited

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

3. Model: ISEN590 (Representative Model).

ISEN590 (Tested Model)

156 cells (Cut Cell):

ISEN585 , ISEN580 , ISEN575 , ISEN570 , ISEN565 , ISEN560 (Series models).

144 cells (Cut Cell):

ISEN555 , ISEN550 , ISEN545 , ISEN540 , ISEN535 , ISEN530, ISEN525, ISEN520 (Series models).

132 cells (Cut Cell):

ISEN510 , ISEN500 (Series models).

120 cells (Cut Cell):

ISEN460 , ISEN455 , ISEN450 , ISEN445 , ISEN440 , ISEN435, ISEN430, ISEN425, ISEN420 (Series models).

108 cells (Cut Cell):

ISEN410 , ISEN405 , ISEN400 , ISEN395 , ISEN390 , ISEN385, ISEN380 (Series models).

4. Model differences provided (if applicable): Yes

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

6. Test Results:

SL. NO.	TEST REQUIREMENT	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



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9	MST 25-Bypass diode thermal test	MST 25	P
10	MST 42-Robustness of terminations test	MST 42	P
11	MST 26 – Reverse current overload Test	10.9	P
12	MST 32 – Module breakage test	10.10	P
13	MST 17 – Wet leakage current test	MST 17	P
14	MST 22 – Hot-spot test	MST 22	P
15	MST 34 – Mechanical load test	MST 34	P
16	MST 51a – Thermal cycling test (TC200)	MST 51a	P
17	MST 51b – Thermal cycling test (TC50)	MST 51b	P
18	MST 52 – Humidity freeze test	MST 52	P
19	MST 53 – Damp heat test	MST 53	P
20	MST 54 – UV preconditioning test	MST 54	P
21	MST 15 – Partial discharge test	11.1	P
22	MST 33 – Conduit bending test	11.2	N/A
23	MST 44 –Terminal box knockout test	11.3	N/A

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/IEC61730-2:2004 (First Edition) + A1:2017
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 meets~~ all relevant requirements stated above of IS/IEC61730-2:2004 (First Edition) + A1:2017.

DATE: 01/06/2023

(Signature of Authorized person with Stamp)


Anurag Chitambar
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