



TEST REPORT ON : SOLAR PV MODULE

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1.0 SCOPE

1.1 Service Request No. : TE/0002/12-21
1.2 Test Report No. : ERTL(E)/TES/S709/0001/12-21/001
Date : 20-12-2021

ULR No. : TC563721000000075F

1.3 Requested by : SHANTI SOLAR
(Name & address of the organisation) PLOT NO. S4/E1,20/A.INFO V/ COLLEGE II, EMC PARK,
HAREKRUSHNAPUR,JATANI
KHORDHA-752054
ORISSA

1.4 Description Item : SOLAR PV MODULE
Identification Make : SHANTI SOLAR
of the item Model : SS335P
to be tested SI.No. : SS3350821010950
Qty : 1

1.4.1 Applicable Spec. of the item(s) tested : 335 WATT +/-2%

1.4.2 Characterisation and Condition : Not applicable
condition of item : Satisfactory

1.5 Date of receipt of item : 07-12-2021

1.6 Date of start of testing : 15-12-2021

1.6.1 Date of completion of testing : 17-12-2021

1.7 Location where testing performed : IN HOUSE

1.8 Ambient condition during measurement : 25 +/-2 °C
45-70%RH

1.9 Discipline (NABL) : ELECTRONICS DISCIPLINE

1.9.1 Spec. used for testing : V-I CHARACTERISTIC CURVE AT STC

1.9.2 Details of non standard method followed (if any):



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TEST REPORT ON	: SOLAR PV MODULE		
MAKE	: SHANTI SOLAR	TEST ENGR.	DATE
MODEL / TYPE	: SS335P	DILIP ROY	17-Dec-21
SERIAL NO.	: SS3350821010950		
JOB NO.	: 0001/TE/12-21		

2.0 TEST RESULTS: AT STANDARD TEST CONDITION (STC)

TEST NO.	TEST OR ENVIRONMENT	CLAUSE NO.	QUANTITY		SPECIFICATION LIMIT	TEST RESULT
			TESTED	FAILED		
1	Power Output (Pmax),	-	1	-	Not Specified	324.143 W
2	Maximum Power Voltage (Vmp),	-	1	-	Not Specified	38.038 V
3	Maximum Power Current (Imp),	-	1	-	Not Specified	8.522 A
4	Open circuit voltage (Voc)	-	1	-	Not Specified	46.147 V
5	Short circuit current (Isc)	-	1	-	Not Specified	8.957 A
6	Fill Factor (FF)	-	1	-	Not Specified	78.417 %
7	Module Efficiency (M.Eff)	-	1	-	Not Specified	16.662 %
8	I-V Curve for the above parameters	-	1	-	-	Attached along with report page No. 3 of 5

Note : Measurement Uncertainty at 95 % CL (k=2) for Power Output (Pmax)=3 %

AUTHORISED SIGNATORY	<i>Syadan</i>
NAME	SAMIR YADAV
DESIGNATION	SCIENTIST 'B'



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TEST ENGR.

DATE

DILIP ROY

17-Dec-21

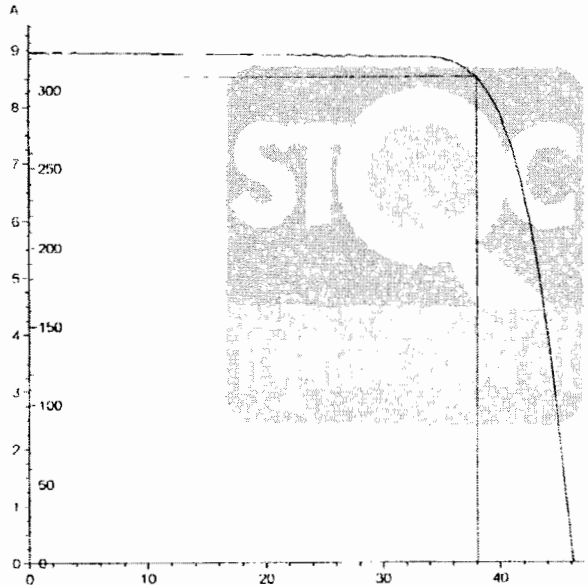
2.0 TEST RESULT : AT STANDARD TEST CONDITION (STC)

8 I-V Curve

Performance measurement

PASAN SPROD Tester STC V2 1.2

15-12-21 13 06



Measurement Data (Temp compensated results)

PASAN Tester version	2.1.2	Operator	
Module ID Code	SS3350821010950	Serial number	SS3350821010950
Standard temperature	25.0 °C	Monitor Cell	10-0656-01
Mean Irradiance	1.000 kW/m ²	Calibration Value	68.60 mV/(kW/m ²)
Module Temp	24.6 °C	Mon. Cell Temp	24.6 °C
Mask	NOT MASK 1.000	Cell Area	249.640 cm ²
Module Area	19453.500 cm ²	Cells in Parallel	1
Cells in Series	72	Isc	8.957 A
Voc	46.147 V	Imp	8.522 A
Vmp	38.038 V	Pmax	324.143 W
Reference vlt 1	32.800 V	Reference vlt 2	0.000 V
Power at ref 1	290.917 W	Power at ref 2	-1.000 W
Current at ref 1	8.869 A	Current at ref 2	0.000 A
Fill Factor	78.417 %	Cell Efficiency	18.034 %
Module Efficiency	16.662 %	Shunt res	377.157 Ohm
Series res	0.512 Ohm		

AUTHORISED SIGNATORY

NAME

DESIGNATION

SAMIR YADAV

SCIENTIST "B"



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3.0 Equipment used
EQPT_NO NAME

MAKE

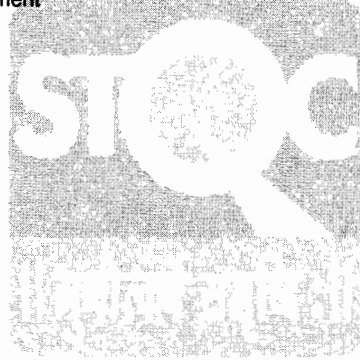
MODEL

CAL.VALID UPTO

Please see the ANNEXURE--'EQUIPMENT USED'-- for details of equipment used for testing.

4.0 Remarks (if any) :

- The findings of all tests conducted have been mentioned under head 'TEST RESULTS'
Test has been done as per customers requirement



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NOTES

1. This certificate/ report refer only to the particular item submitted for calibration/test.
2. The certificate/report, if reproduced for any purpose, commercial or otherwise, should be reproduced in full. The reproduction of a part, or an abstract thereof, has to be got specially approved from Director, Electronics Regional Test Laboratory (East).
3. The results reported in the certificate /reports are valid at the time of and under the stated conditions on measurement.
4. Calibration need to be done periodically to maintain the accuracy of the measurement. (in case of calibration report only)

RELEASED BY

(Signature & Date)

Shilpa Biswas
23/12/2021

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