



DELHI TEST HOUSE

(A Unit of Delhi Test House Global LLP)

Plot No. 50, Phase - IV, Sector-57, HSIIDC Industrial Area, Behind Parnami Hospital, Kundli, Sonapat-131028 (Haryana)

Telefax : 0130-2116529

e-mail : kundli@delhitesthouse.com, ag@delhitesthouse.com Website : www.delhitesthouse.com



Discipline: Electronics,

Group: Miscellaneous Products

Test Report No.: 258983250703KUNE15000

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ULR – TC1461925100003660F

Dated: 22/07/2025

TEST REPORT IEC TS 62804-1:2015 Photovoltaic (PV) Modules (Test methods for the detection of potential-induced degradation) Part 1: Crystalline silicon	
Report Reference No.	: 258983250703KUNE15000
Date of issue	: 22/07/2025
Total number of pages	: 17
Testing Laboratory	: Delhi Test House
Address	: Plot No-50, Phase-IV, Sector-57, HSIIDC Kundli-131028, Haryana, India
Manufacturer's name	: CONTENDRE GREENERGY PVT.LTD
Address	: Plot No-369, Pandit Deendayal Energy University, Raysan Village, Town Planning Scheme 19, PDPU Road, Gandhinagar, Gujarat, Gujarat- 382426
Test specification	: As per MNRE guidelines
Standard	: IEC TS 62804-1:2015
Non-standard test method	: N/A
Test item description	: CRYSTALLINE SILICON TERRESTRIAL PHOTOVOLTAIC(PV) MODULES(Si wafer based)
Trade Mark	:  CONTENDRE
Model/Type reference	: CG X144-550 (Tested model)
Sample received condition	: ☒ Good ☐ other

Tested by:	Approved by / Authorized Signatory:	Issued by:
 Santosh Kumar Singh (Test Engineer)	 Ashish Goel (Director)	 Pawan Rohilla (Customer Executive)
(Name / Designation)	(Name / Designation)	(Name / Designation)
Date: 22/07/2025	Date: 22/07/2025	Date: 22/07/2025

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Summary of testing:

Tests performed (name of test and test clause):	Results
Preconditioning	Testing location: Delhi Test House Plot No. 50, Phase-IV, Sector-57, HSIDC Industrial Area, Kundli, Sonipat, Haryana-131028
10.1 Visual Inspection	
10.2 Maximum Power Determination	
10.15 Wet leakage current test	
MST 13 – Ground continuity test	
PID stress test method (a) 3 cycles (1 cycle = 96h)	
10.2 Maximum Power Determination	
10.1 Visual Inspection	
10.15 Wet leakage current test	

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Copy of marking plate on backside of module:**Tested model : CG X144-550**

**CONTENDRE**
GREENERGY PVT.LTD.
MADE IN INDIA


CGX144062500001
Model No.CG X144 - 550
Nominal Watt- 550W (+/-2%)
Mfg. Year - 2025

**CONTENDRE GREENERGY PVT.LTD.**
Manufacturing Address:
Final Plot No 369, Pandit Deendayal Energy University,
Raysan Village, Town Planning Scheme 19,
PDPU Road, Gandhinagar, Gujarat, Gujarat - 382426
Tel : + 91 9136457555
Email : sales@contendresolar.com
www.contendresolar.com

WARNING ELECTRICAL HAZARD
This module produces electricity when exposed to sun light.
Do not disconnect the module under load.
Always follow all applicable and recommended safety precautions.
All installations and maintenance operations to be performed under qualified personnel in accordance with local regulations.
Do not handle modules where they are hot or if the backsheet is damaged.
Always maintain the modules using approved list of chemicals as mentioned in instruction sheet. Refer instruction sheet for more information.

MAXIMUM at STC : 25°C Temp. Cell: 1000W/m² AM 1.5
BNPI : From 1000W/m² to 1515 W/m² BSI : From 1010W/m² to 1815 W/m² Max. Temp. 75°C
MADE IN INDIA   

IS 14286 : 2019 / IEC 61215 : 2005,
IS/IEC 61790 (PART 1) : 2004 &
IS/IEC 61793 (PART 2) : 2004

R-72012700

CG X144 - 550		STC	BNPI	BSI b	Bifaciality Coefficient
Maximum System Voltage	: 1500 VDC				
Maximum Series Fuse	: 25 A				
Application Class	: Class A				
Protection Against Electrical Shock	: II				
Module Weight	: 28.50 kg				
Module Efficiency	: 21.29 %				
Module Size	: 2278 x 1134 x 35 mm				
Maximum Power (Pmax) (+/- 2%)		550 (+/- 2%)	605 (+/- 2%)		70 ± 10%
Open Circuit Voltage (Voc)		49.70 V (± 3%)	49.70 V (± 3%)		99 ± 10%
Short Circuit Current (Isc)		13.82 A (± 3%)	15.20 A (± 3%)	17.65 ± 3%	70 ± 10%
Maximum Power Voltage (Vmp)		41.90 V	41.90 V		
Maximum Power Current (Imp)		13.13 A	14.44 A		
Fill Factor		80.16%			

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General Product Information:

PV module type reference.....: CG X144-550 (Tested model)

Product Electrical Ratings at STC

Nominal maximum power (Pmax).....: 550(±2%)W

Nominal open circuit voltage at (Voc).....: 49.70(±3%)V

Nominal short circuit current at (Isc).....: 13.82(±3%)A

Nominal maximum power voltage (Vmp).....: 41.90V

Nominal maximum power current (Imp).....: 13.13A

Product Safety Ratings

Maximum system voltage.....: 1500 V DC

Maximum over-current protection rating.....: 25 A

Safety application class.....: Class A

Safety class in accordance with IS 61140.....: Class II

Fire safety class.....: Class C

Recommended maximum series/parallel module configurations.....: Maximum number of modules in series depends on the system design, type of inverter used on and environment condition.

General Remarks: The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. During giving the conformity statement laboratory do not considering M U in account.

General terms & condition given at the back of test report.

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Sample details:

Sample #	Sample No. & Serial No.
CG X144-550 (Tested model)	1 & CGX144062500002
	2 & CGX144062500003
	3 & CGX144062500004
	4 & CGX144062500005

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Test Procedure

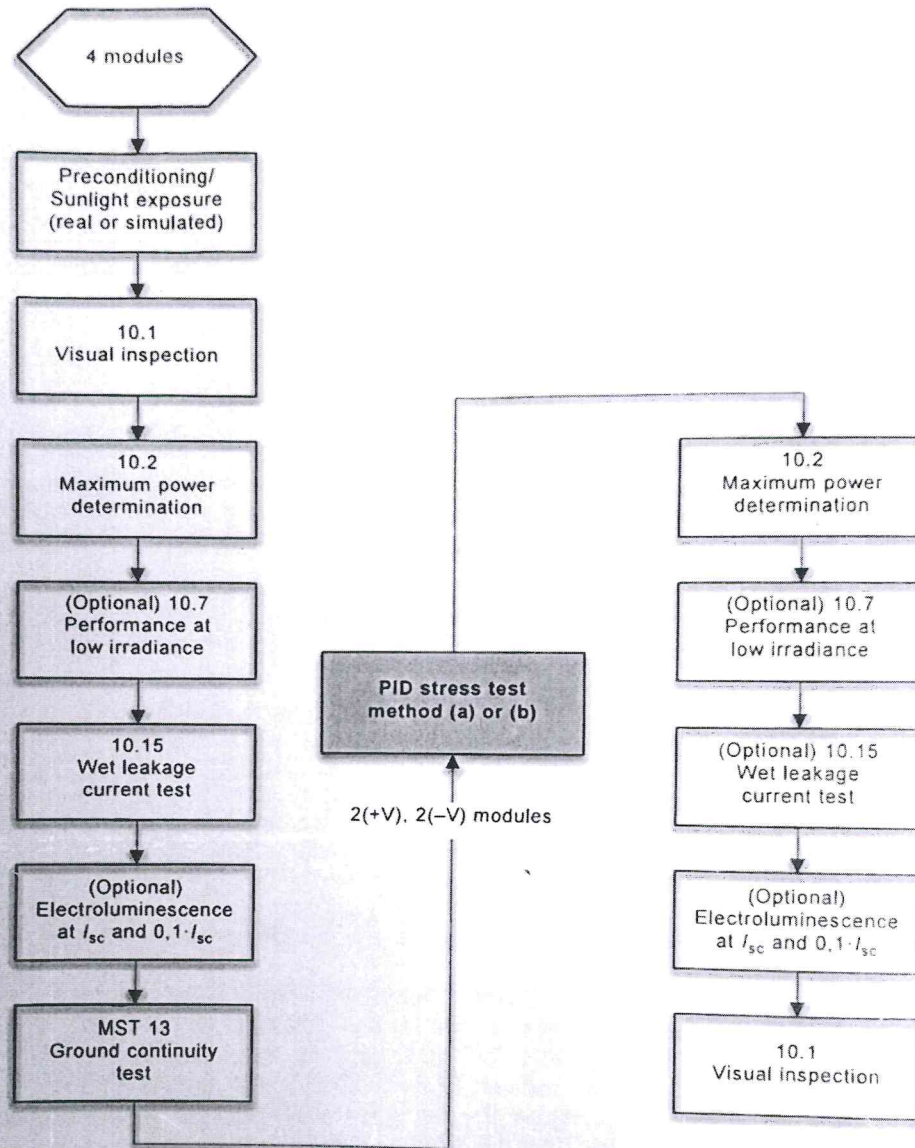


Figure 1 – PID test flow

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4	MARKING		P
	Name, monogram or symbol of manufacturer	 CONTENDRE CONTENDRE GREENERGY PVT.LTD (See also copy of marking)	P
	Type or model number	CG X144-550 (Tested model) (See also copy of marking)	P
	Serial number	Marked. (See also copy of marking laminated inside the glass)	P
	Polarity of terminals or leads	Positive and negative marked (See also copy of marking of Polarity of terminals or leads)	P
	Maximum system voltage	1500V marked	P

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MQT 01	TABLE: (Initial) Visual inspection	P
Test Date [DD/MM/YYYY]..:	03/07/2025	—
Sample #	Nature and position of initial findings – comments or attach photos	—
1	No visual defects found	P
2	No visual defects found	P
3	No visual defects found	P
4	No visual defects found	P
Supplementary information: Nil		

10.2 Initial	TABLE: Maximum power determination (Initial)					P
Test Date [DD/MM/YYYY].....:		03/07/2025				—
Module temperature [°C].....:		25				—
Irradiance [W/m2).....:		1000				—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]
1	50.42	42.15	13.886	13.088	551.64	78.79
2	50.43	42.16	13.881	13.083	551.59	78.79
3	50.42	42.18	13.878	13.080	551.72	78.84
4	50.48	42.13	13.898	13.099	551.86	78.66
Supplementary information: Nil						

MQT 15		TABLE: Wet leakage current test (Initial)		P
Test Date [DD/MM/YYYY].....:		03/07/2025		—
Test Voltage applied [V].....:		1500VDC		—
Solution resistivity [Ω cm).....:		< 3,500 Ω cm at 22 ± 3°C	2350 Ω at 24.8°C	—
Sample #	Measured [MΩ]	Limit [MΩ]		Result
1	4849	15.50		P
2	4710	15.50		P
3	4865	15.50		P
4	4944	15.50		P
Supplementary information: Area of module [m²]: 2.58				

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MST 13	TABLE: Ground Continuity Test - MST 13 (Initial)			P
	Test Date [DD/MM/YYYY].....:	03/07/2025		—
	Maximum system voltage [V _{dc}].....:	1500V		-
	Current applied [A].....:	62.5		-
	Location of designated grounding point.....:	Grounding hole on frame left side		-
	Location of second contacting point.....:	Grounding hole on frame right side		-
Sample No.	Voltage [V _{dc}]	Resistance [Ω]		-
1	0.323	0.0051		P
2	0.342	0.0054		P
3	0.319	0.0051		P
4	0.340	0.0054		P
Supplementary information: Nil				

Clause 4.3	TABLE: Potential Induced Degradation Test (First cycle)		P
Test Date [DD/MM/YYYY].....:	04/07/2025 to 08/07/2025		—
Test method.....:	Chamber		—
Temperature [°C].....:	85		—
Humidity [RH%].....:	85		—
Duration [hours].....:	96		—
Sample No.	Applied voltage (V)		—
1	+1500		P
2	+1500		P
3	-1500		P
4	-1500		P
Supplementary information: Nil			

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Dated: 22/07/2025

MQT 01	TABLE: Visual inspection (Final) After(First cycle) PID Test	P
Test Date[DD/MM/YYYY].....	09/07/2025	—
Sample #	Nature and position of initial findings – comments or attach photos	—
1	No visual defects found	P
2	No visual defects found	P
3	No visual defects found	P
4	No visual defects found	P

Supplementary information: Nil

10.2 Final		TABLE: Maximum power determination After(First cycle) PID Test					P
Test Date [DD/MM/YYYY].....:			09/07/2025				—
Module temperature [°C].....:			25				—
Irradiance [W/m2).....:			1000				—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]	Degradation [%]
1	49.98	41.58	14.006	13.201	548.88	78.4	-0.50
2	49.96	41.67	13.972	13.169	548.76	78.61	-0.51
3	49.97	41.62	13.986	13.182	548.63	78.5	-0.56
4	49.91	41.55	14.011	13.205	548.68	78.46	-0.58

Supplementary information: Nil

MQT 15	TABLE: Wet leakage current test (Final) After(First cycle) PID Test		P
Test Date [DD/MM/YYYY].....:	09/07/2025		—
Test Voltage applied [V].....:	1500VDC		—
Solution resistivity [Ω cm).....:	< 3,500 Ω cm at 22 $\pm$ 3°C	2326 Ω at 24.8°C	—
Sample #	Measured [M Ω]	Limit [M Ω]	Result
1	4616	15.50	P
2	4549	15.50	P
3	4425	15.50	P
4	4705	15.50	P

Supplementary information: Area of module [m²]: 2.58

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Clause 4.3	TABLE: Potential Induced Degradation Test (Second cycle)	P
Test Date [DD/MM/YYYY].....:	10/07/2025 to 14/07/2025	—
Test method.....:	Chamber	—
Temperature [°C].....:	85	—
Humidity [RH%].....:	85	—
Duration [hours].....:	96	—
Sample No.	Applied voltage (V)	—
1	+1500	P
2	+1500	P
3	-1500	P
4	-1500	P
Supplementary information: Nil		

MQT 01	TABLE: Visual inspection (Final) After(Second cycle) PID Test	P
Test Date [DD/MM/YYYY]...	15/07/2025	—
Sample #	Nature and position of initial findings – comments or attach photos	—
1	No visual defects found	P
2	No visual defects found	P
3	No visual defects found	P
4	No visual defects found	P
Supplementary information: Nil		

10.2 Final		TABLE: Maximum power determination After(Second cycle)PID Test					P
Test Date [DD/MM/YYYY].....:			15/07/2025				—
Module temperature [°C].....:			25				—
Irradiance [W/m2).....:			1000				—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]	Degradation [%]
1	49.85	41.39	14.027	13.221	547.21	78.25	-0.30
2	49.79	41.44	14.012	13.207	547.28	78.44	-0.27
3	49.78	41.46	14.004	13.199	547.24	78.5	-0.25
4	49.74	41.43	14.016	13.210	547.29	78.5	-0.25
Supplementary information: Nil							

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MQT 15	TABLE: Wet leakage current test (Final) After(Second cycle) PID Test		P
Test Date [DD/MM/YYYY].....:	15/07/2025		—
Test Voltage applied [V].....:	1500VDC		—
Solution resistivity [Ω cm].....:	< 3,500 Ω cm at 22 $\pm$ 3°C 2354 Ω at 24.8°C		—
Sample #	Measured [$M\Omega$]	Limit [$M\Omega$]	Result
1	4340	15.50	P
2	4005	15.50	P
3	4179	15.50	P
4	4233	15.50	P
Supplementary information: Area of module [m^2]: 2.58			

Clause 4.3	TABLE: Potential Induced Degradation Test (Third cycle)		P
Test Date [DD/MM/YYYY].....:	17/07/2025 to 21/07/2025		—
Test method.....:	Chamber		—
Temperature [°C].....:	85		—
Humidity [RH%].....:	85		—
Duration [hours].....:	96		—
Sample No.	Applied voltage (V)		—
1	+1500		P
2	+1500		P
3	-1500		P
4	-1500		P
Supplementary information: Nil			

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MQT 01		TABLE: Visual inspection (Final) After(Third cycle) PID Test	P
Test Date [DD/MM/YYYY]...		22/07/2025	—
Sample #	Nature and position of initial findings – comments or attach photos		—
1	No visual defects found		P
2	No visual defects found		P
3	No visual defects found		P
4	No visual defects found		P
Supplementary information: Nil			

10.2 Final		TABLE: Maximum power determination After((Third cycle))PID Test					P
Test Date [DD/MM/YYYY].....		22/07/2025					—
Module temperature [°C].....		25					—
Irradiance [W/m2].....		1000					—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]	Degradation [%]
1	49.32	41.20	13.963	13.160	542.21	78.73	-0.91
2	49.35	41.24	13.949	13.147	542.18	78.76	-0.93
3	49.34	41.21	13.958	13.156	542.16	78.72	-0.93
4	49.36	41.25	13.946	13.144	542.19	78.76	-0.93
Supplementary information: Nil							

MQT 15		TABLE: Wet leakage current test (Final) After(Third cycle) PID Test		P
Test Date [DD/MM/YYYY].....:		22/07/2025		—
Test Voltage applied [V].....:		1500VDC		—
Solution resistivity [Ω cm).....:		< 3,500 Ω cm at 22 ± 3°C	2310 Ω at 24.8°C	—
Sample #	Measured [MΩ]	Limit [MΩ]		Result
1	4005	15.50		P
2	3645	15.50		P
3	3830	15.50		P
4	3824	15.50		P
Supplementary information: Area of module [m²]: 2.58				

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10.2 Initial		TABLE: Maximum power determination (Final)					P
Test Date [DD/MM/YYYY].....:		22/07/2025					—
Module temperature [°C].....:		25					—
Irradiance [W/m ²].....:		1000					—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]	Degradation [%]
1	49.32	41.20	13.963	13.160	542.21	78.73	-1.71
2	49.35	41.24	13.949	13.147	542.18	78.76	-1.71
3	49.34	41.21	13.958	13.156	542.16	78.72	-1.73
4	49.36	41.25	13.946	13.144	542.19	78.76	-1.75
Supplementary information: Nil							

MQT 15		TABLE: Wet leakage current test (Final)		P
Test Date [DD/MM/YYYY].....:		22/07/2025		—
Test Voltage applied [V].....:		1500VDC		—
Solution resistivity [Ω cm).....:		< 3,500 Ω cm at 22 ± 3°C	2310 Ω at 24.8°C	—
Sample #	Measured [MΩ]	Limit [MΩ]		Result
1	4005	15.50		P
2	3645	15.50		P
3	3830	15.50		P
4	3824	15.50		P
Supplementary information: Area of module [m²]: 2.58				

MQT 01		TABLE: Visual inspection Final	P
Test Date [DD/MM/YYYY]...		22/07/2025	—
Sample #	Nature and position of initial findings – comments or attach photos		—
1	No visual defects found		P
2	No visual defects found		P
3	No visual defects found		P
4	No visual defects found		P
Supplementary information: Nil			

SK

Delhi Test House Global LLP
Plot No. 50, Phase-IV, Sector-57,
HSIIDC, Indl. Estate,
Behind Hasija Hospital, Kundli
Sonipat-131028 (Haryana)



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Report No.: 258983250703KUNE15000

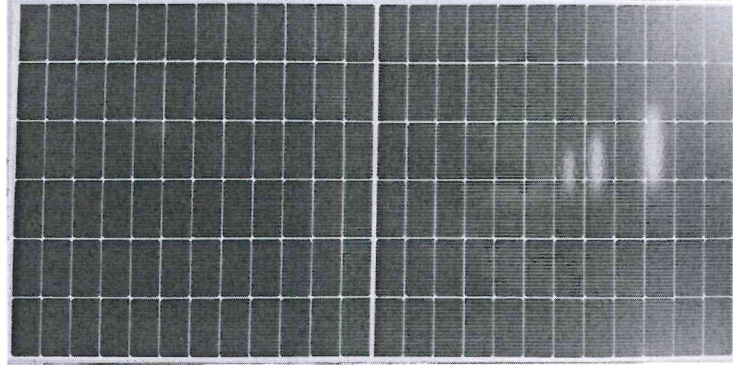
IEC TS 62804-1:2015

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Attachment - I
Photo Document
Front view of PV module



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Bill of materials

Component	Specification
Solar cell	Manufactured By: Premier Energies Limited Type: PEPPL, PIRANHA P TYPE M10 BIFACIAL
Front cover	Manufactured By: Borosil Renewables Ltd Type: 3.2 mm Low iron Tempered solar Glass
Rear cover	Manufactured By: Alishan Green Energy Pvt Ltd Type: Alishan BackPro, Backsheets- ABS-CPC-T 1500V
Encapsulation material	Manufactured By: Knack Energy Pvt Ltd. Type: KNACK UVT PFC, 1128mm, KNACK 360 PFC, 1128mm, Thickness: 0.46mm±5%
Frame parts	Manufactured By: SST Renewables India Pvt Ltd. Type: Aluminium Alloy, Model: HT1005, Material: 6063-T5
Adhesive for frame	Manufactured By: Fasto Advance Materials India Pvt Ltd., Type: Fasto SM30, RTI=105°C, HAI=0, HWI=1, White Colour, Flammability class is V-0, thickness: 3.0mm
Cell connector	Manufactured By: Best wires Pvt Ltd Type: RIBBON 0.5x0.200 mm
String connector	Manufactured By: Best wires Pvt Ltd Type: INTERCONNECT 5.0x0.500 mm
Soldering material	Manufactured By: Tushar Trading Type: SOLDER WIRE SWG 63/67 NO CLEAN
Fluxing agent	Manufactured By: Metal Chem Type: FLUX TYPE-0185(B/B)
Junction box	Manufactured By: Dhash PV Technologies Private Limited Type: DSJB12b, IP68, Rated voltage: 1500V DC, Reverse Current-40A, Ambient temperature = -40°C to 85°C, RTI: 125°C
Cable	Manufactured By: Dhash PV Technologies Private Limited (Vindhya Telelinks Ltd), Type: 62930 IEC 131.1X5sq.mm PV wire with Halogen free low smoke, Voltage=1500V DC, Ambient temperature=-40°C to 90°C, Max. Temperature at conductor =120°C, Application Class A Protection class II
Connector	Manufactured By: Dhash PV Technologies Private Limited Type: DS01, Voltage: 1500V, Current: 35A, IP68, Ambient temperature = -40°C to 85°C
Bypass diode	Manufactured By: SMC DIODE SOLUTIONS Type: DS4045T, 45V, Tj: -55°C to +200°C, RθJC: 1.5°C/W
Potting material	Manufactured By: Adarsha Advance Materials India Pvt. Ltd. Type: ADSIL JB 597, RTI=105°C, Flame Class =V.1, HWI=2, HAI=0, IPT=2.5kV, Minimum thickness=3.0mm
Adhesive for junction box	Manufactured By: Fasto Advance Materials India Pvt Ltd., Type: Fasto SM30, RTI=105°C, HAI=0, HWI=1, White colour, Flammability class is V-0, Thickness: 3.0mm

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Note: Bill of material are same for family model.

Date of Starting of test: 03/07/2025

Date of Completion of test: 22/07/2025

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End of Report

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