



DELHI TEST HOUSE[®]

(A Unit of Delhii Test House Global LLP)

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

Teletax : 0130-2116529

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



Discipline: Electronics, Group: Miscellaneous Products

ULR – TC1461925100002784F

Test Report No.:256121250324KUNE12000

Page 1 of 18

Issue date: 30/05/2025

TEST REPORT IEC 61701:2020 Photovoltaic (PV) Modules (Salt mist corrosion testing)	
Report Reference No.	256121250324KUNE12000
Date of issue	30/05/2025
Total number of pages	18
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:	
Standard	IEC 61701:2020 Ed. 3.0 2020-6-11
Test procedure	Compliance Report
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

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Testing Procedure And Testing Location:

Testing Laboratory:

DELHI TEST HOUSE

Testing Location/Address.....:

Plot No. 50 Phase-IV, Sector-57, HSIDC Industrial Area, Kundli,
Sonipat, Haryana-131028

Tested by (Name+ signature).....:

Santosh Kumar Singh
(Test engineer)

Approved by (Name+ signature).....:

Ashish Goel
(Director)

Issued by (Name + signature).....:

Pawan Rohilla
(Customer Executive)



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Table – List of Attachments

Attachment No.	Attachment Description	No. of pages in Attachment
Attachment-I	Photo Document	1 (Page 17)

Summary of testing:

Tests performed (name of test and test clause):	Results
MQT 01 Visual Inspection.	P
MQT 19.1 Initial Stabilization.	P
MQT 02 Maximum Power determination.	P
MQT 03 Insulation test.	P
MST 17 Wet leakage Current test.	P
MST 13 Continuity test of equipotential bonding.	P
Salt mist test according one of the methods included in IEC 60068-2-52.	P
MQT 19.1 Final Stabilization.	P
MQT 02 Maximum Power determination.	P
MQT 03 Insulation test.	P
MST 17 Wet leakage Current test.	P
MST 13 Continuity test of Equipotential Bonding.	P
MQT 18 Bypass Diode Testing.	P

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Copy of marking plate

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.
Don't handle modules when they are not in the backsheet is damaged.
Always maximize the modules using approved list of chemicals as mentioned in instruction sheet. Refer instruction sheet for more information.

MADE IN INDIA

IS 14286 : 2018/ IEC 61215 : 2005,
IS/IEC 61730 (PART 1) : 2004 &
IS/IEC 61730 (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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Sample details:

Sample #	Sample No. & Serial No.
CG X144-550 (Tested model)	1 & CGX144062500006
	2 & CGX144062500007
	3 & CGX144062500008

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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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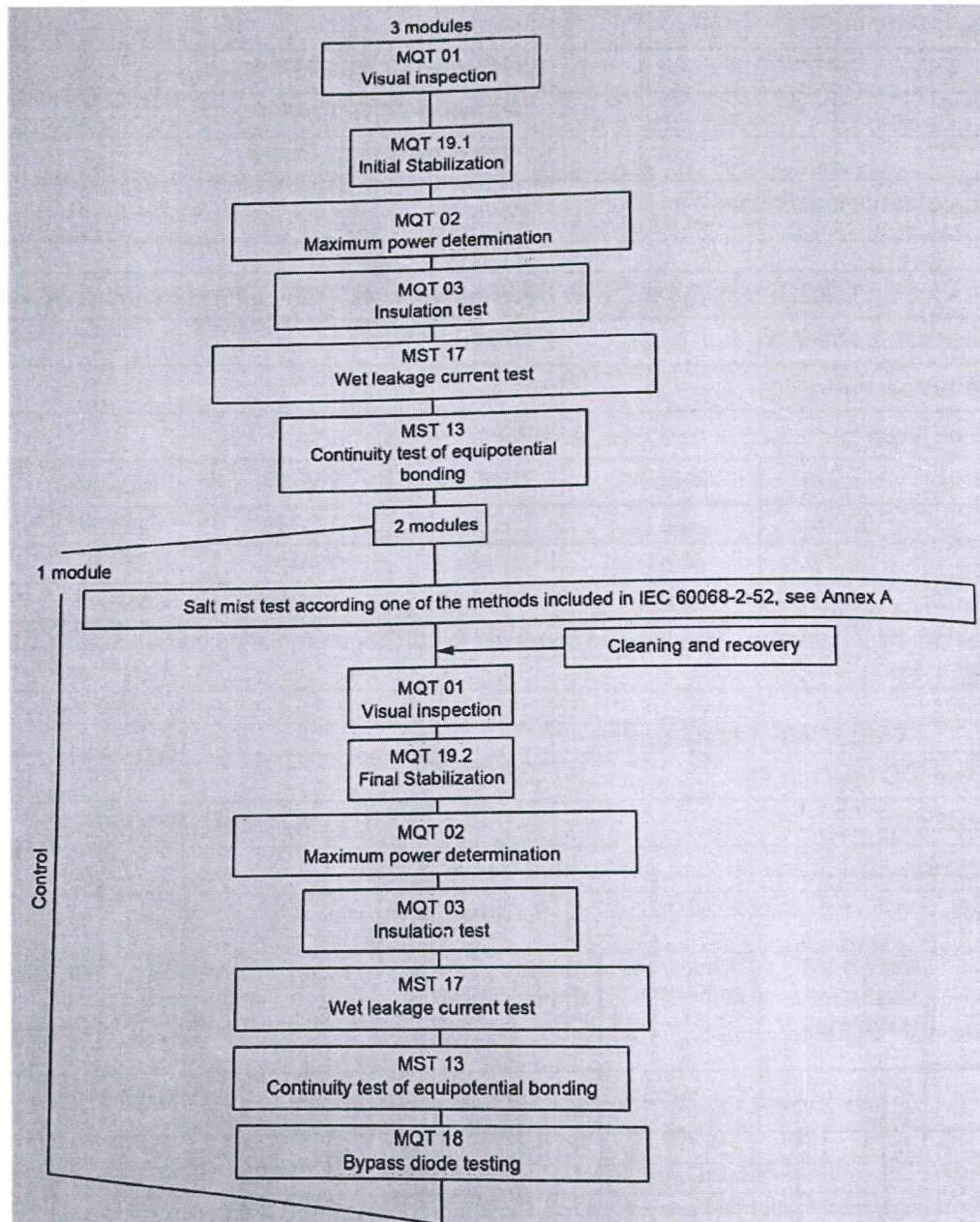
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Test Procedure



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Dated: 30/05/2025

MQT 01	TABLE: (Initial) Visual inspection	P
Test Date.....:	24/03/2025	—
Sample		—
1	No visual defects found	P
2	No visual defects found	P
3	No visual defects found	P
Supplementary information:		

10.2	TABLE: Maximum power determination at STC – before Initial stabilization						P
Test Date [DD/MM/YYYY]			24/03/2025				—
Module temperature [°C].....			25				—
Irradiance [W/m²)			1000				—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]	
1	50.14	42.12	13.894	13.095	551.56	79.17	
2	50.27	42.19	13.877	13.079	551.81	79.10	
3	50.21	42.17	13.882	13.084	551.77	79.16	
Supplementary information: Temperature corrected to 25°C and Irradiance corrected to 1000 W/m². Bifacial Module.							

TABLE Initial Stabilization						P
Test Date [DD/MM/YYYY].....:			25/03/2025			—
Light exposure			STEADY STATE SUN SIMULATOR USED			—
Sample No.....:			1			—
Sample #						
Test cycle	Integrated irradiation (kWh/m2)	Irradiance (W/m2)	Module temperature (°C)	Pmax (W) at the end of cycle	Pmax – Pmin) / Paverage (%) < x	Stable (Yes/No)
Initial	--	--	--	551.56	0.251	--
1 st	5.12	966	54.1	550.79		--
2 nd	5.13	958	53.2	550.18		Yes
3 rd	---	---	---	---		---
Supplementary information:Where x is defined in the technology specific parts of this standard, x=0.01 (1%) for c-Si modules.						

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Dated: 30/05/2025

TABLE Initial Stabilization						P
Test Date [DD/MM/YYYY]			26/03/2025			—
Light exposure			STEADY STATE SUN SIMULATOR USED			—
Sample No.....			2			—
Sample #						
Test cycle	Integrated irradiation (kWh/m2)	Irradiance (W/m2)	Module temperature (°C)	Pmax (W) at the end of cycle	Pmax – Pmin) / Paverage (%) < x	Stable (Yes/No)
Initial	--	--	--	551.81	0.190	--
1 st	5.09	954	54.0	551.24		--
2 nd	5.12	956	53.8	550.76		Yes
3 rd	---	---	---	---		---
Supplementary information:Where x is defined in the technology specific parts of this standard, x=0.01 (1%) for c-Si modules.						

TABLE Initial Stabilization						P
Test Date [DD/MM/YYYY]				27/03/2025		—
Light exposure				STEADY STATE SUN SIMULATOR USED		—
Sample No.....				3		—
Sample #						
Test cycle	Integrated irradiation (kWh/m2)	Irradiance (W/m2)	Module temperature (°C)	Pmax (W) at the end of cycle	Pmax – Pmin) / Paverage (%) < x	Stable (Yes/No)
Initial	--	--	--	551.77	0.170	--
1 st	5.17	956	53.9	551.38		--
2 nd	5.11	951	53.8	550.83		Yes
3 rd	---	---	---	---		---
Supplementary information:Where x is defined in the technology specific parts of this standard, x=0.01 (1%) for c-Si modules.						

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MQT 01	TABLE: Visual inspection (after initial stabilization)	P
Test Date.....:	28/03/2025	—
Sample		—
1	No visual defects found	P
2	No visual defects found	P
3	No visual defects found	P
Supplementary information:		

MQT 02	TABLE: Maximum power determination at STC – After initial stabilization					P
Test Date.....:			28/03/2025			—
Module temperature [°C].....:			25			—
Irradiance [W/m²).....:			1000			—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]
1	49.94	41.98	13.905	13.106	550.18	79.22
2	49.96	41.96	13.926	13.126	550.76	79.16
3	49.92	41.97	13.925	13.124	550.83	79.24
Supplementary information: Temperature corrected to 25°C and Irradiance corrected to 1000W/m²						

MQT 03 Initial	Table: Insulation test (initial)				P
Test Date.....:			28/03/2025		—
Test Voltage applied [V].....:			IR:1500V for 2 min /4000V for 1 min		—
Sample #	Measured	Required	Dielectric breakdown		Result
	MΩ	MΩ	Yes (description)	No	—
1	>2000	15.50	-	No	P
2	>2000	15.50	-	No	P
3	>2000	15.50	-	No	P
Supplementary information: Size of module [m²]: 2.58					

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MST 17 Initial	TABLE: Wet leakage current test (Initial)		P
Test Date.....	28/03/2025	—	—
Test Voltage applied [V].....	1500VDC	—	—
Solution resistivity [Ω cm).....	< 3,500 Ω cm at 22 $\pm$ 3°C	2149 Ω at 24.2°C	—
Sample #	Measured [M Ω]	Limit [M Ω]	Result
1	3480	15.50	P
2	3492	15.50	P
3	3501	15.50	P
Supplementary information: Size of module [m ²]: 2.58			

MST 13	TABLE: Ground Continuity Test-MST13(Initial)		P
Test Date.....	28/03/2025	—	—
Maximum system voltage[V _{DC}].....	1500V	-	-
Current applied[A].....	62.5A	-	-
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	0.425	0.0068	P
2	0.388	0.0062	P
3	0.400	0.0064	P
Supplementary information:			

TABLE:	Salt-Mist Corrosion Test		P
Test Date.....	29/03/2025 to 23/05/2025	—	—
Sample No.....	2, 3	—	—
Concentration of NaCl [%].....	5	—	—
Number of Cycle.....	8	—	—
Total Cycle Days [D].....	56 days	—	—
Severity (6) - 8 cycles, each consisting of spraying the specimen with a salt solution at 35°C $\pm$ 2°C for 2hrs followed by Humidity storage at 40°C $\pm$ 2°C and 90% - 96%RH for 22 hrs. After 8 periods of spraying and humidity storage, one storage period under standard atmosphere: 23°C $\pm$ 2 °C and 45%-55%RH for 3 days Cleaning & Recovery after the test: Samples are washed in running tap water having temperature <35°C for 5 min and then rinsed in distilled water. The samples are then dried completely.			

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Dated: 30/05/2025

MQT 01	TABLE: Visual inspection	P
Test Date.....	24/05/2025	
Sample		—
2	No visual defects found	P
3	No visual defects found	P
Supplementary information:		

10.2	TABLE: Maximum power determination at STC – before final stabilization						P
Test Date [DD/MM/YYYY]	24/05/2025						—
Module temperature [°C].....	25						—
Irradiance [W/m ²]	1000						—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]	
2	49.68	41.82	13.782	12.990	543.24	79.34	
3	49.58	41.81	13.79	12.997	543.41	79.47	
Supplementary information: Temperature corrected to 25°C and Irradiance corrected to 1000 W/m ² . Bifacial Module.							

	TABLE Final Stabilization						P
Test Date [DD/MM/YYYY].....	26/05/2025						—
Light exposure	STEADY STATE SUN SIMULATOR USED						—
Sample No.....	2						—
Sample #							
Test cycle	Integrated irradiation (kWh/m ²)	Irradiance (W/m ²)	Module temperature (°C)	Pmax (W) at the end of cycle	Pmax – Pmin / Paverage (%) < x	Stable (Yes/No)	
Initial	--	--	--	543.24	0.205	--	
1 st	5.12	966	54.1	542.95		--	
2 nd	5.13	958	53.2	542.13		Yes	
3 rd	---	---	---	---		---	
Supplementary information: Where x is defined in the technology specific parts of this standard, x=0.01 (1%) for c-Si modules.							

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TABLE Final Stabilization					P	
Test Date [DD/MM/YYYY].....:			27/05/2025			—
Light exposure			STEADY STATE SUN SIMULATOR USED			—
Sample No.....:			3			—
Sample #						
Test cycle	Integrated irradiation (kWh/m2)	Irradiance (W/m2)	Module temperature (°C)	Pmax (W) at the end of cycle	Pmax – Pmin) / Paverage (%) < x	Stable (Yes/No)
Initial	--	--	--	543.41	0.227	--
1 st	5.09	954	54.0	543.22		--
2 nd	5.12	956	53.8	542.18		Yes
3 rd	---	---	---	---		---
Supplementary information:Where x is defined in the technology specific parts of this standard, x=0.01 (1%) for c-Si modules.						

MQT 01	TABLE: Visual inspection (after final stabilization)		P
Test Date.....:	28/05/2025		—
Sample			—
2	No visual defects found		P
3	No visual defects found		P
Supplementary information:			

MQT 02	TABLE: Maximum power determination at STC – After final stabilization						P
Test Date.....:	28/05/2025						—
Module temperature [°C].....:	25						—
Irradiance [W/m ²].....:	1000						—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]	
2	49.62	41.85	13.744	12.954	542.13	79.49	
3	49.51	41.78	13.769	12.977	542.18	79.53	
Supplementary information: Temperature corrected to 25°C and Irradiance corrected to 1000W/m ²							

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MQT 03	Table: Insulation test				P
Test Date.....:	28/05/2025				—
Test Voltage applied [V].....:	IR:1500V for 2 min /4000V for 1 min				—
Sample #	Measured	Required	Dielectric breakdown		Result
	MΩ	MΩ	Yes (description)	No	
2	>2000	15.50	-	No	P
3	>2000	15.50	-	No	P
Supplementary information: Size of module [m ²]: 2.58					

MST 17	TABLE: Wet leakage current test			P
Test Date.....:	28/05/2025			—
Test Voltage applied [V].....:	1500VDC			—
Solution resistivity [Ω cm).....:	< 3,500 Ω cm at 22 ± 3°C		2172 Ω at 23.9°C	—
Sample #	Measured [MΩ]	Limit [MΩ]		Result
2	3177	15.50		P
3	3214	15.50		P
Supplementary information: Size of module [m²]: 2.58				

MST 13	TABLE: Ground Continuity Test-MST13		P
	Test Date.....:	28/05/2025	—
	Maximum system voltage[V _{DC}].....:	1500V	-
	Current applied [A].....:	62.5A	-
	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]	-
2	0.454	0.0072	P
3	0.463	0.0074	P
Supplementary information: Nil			

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MQT 18.1		TABLE: Bypass diode thermal test			P
Test Date.....	29/05/2025				—
Module temperature [°C].....	75±5°C				—
Number of diodes in junction box.....	3				—
Diode manufacturer.....	SMC DIODE SOLUTIONS				—
Diode type designation.....	DS4045T				—
	Diode 1	Diode 2	Diode 3	Result	
Rated STC short-circuit Current [A].....	13.82	13.82	13.82	-	
Voltage drop [V].....	0.362	0.359	0.363	-	
Power dissipation [W].....	5.00	4.96	5.02	-	
Current flow (1.25 * Isc) [A].....	17.28	17.28	17.28	-	
Test duration(hour)	1	1	1		
Diode functional? yes/no	Yes	Yes	Yes	P	
Remarks:					

MQT18.2		Bypass diode functionality test after bypass diode thermal test			P
Test Date		30/05/2025			—
☐ Method A					N/A
Ambient temperature[°C].....		—			—
Current flow applied[A].....		—			—
Sample#	VFM	VFM rated	VFM= (N×VFM rated)±10 %		Result
—	—	—	☐ Yes ☐ No		—
Supplementary information:					
☒ Method B					—
Sample#	Diode No.	IV curve after shading			Result
2	Diode 1	Turn on			P
	Diode 2	Turn on			P
	Diode 3	Turn on			P
3	Diode 1	Turn on			P
	Diode 2	Turn on			P
	Diode 3	Turn on			P
Supplementary information: N/A					

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MQT 02	TABLE: Maximum power determination after Bypass diode test					P
Test Date.....	30/05/2025					—
Module temperature [°C].....	25					—
Irradiance [W/m ²].....	1000					—
Sample #	Voc [V]	Vmp [V]	Isc [A]	Imp [A]	Pmp [W]	FF [%]
1 (control)	49.81	41.76	13.952	13.150	549.14	79.01
2	49.45	41.81	13.699	12.923	540.31	79.76
3	49.44	41.72	13.727	12.938	539.77	79.53
Supplementary information: Temperature corrected to 25°C and Irradiance corrected to 1000W/m ²						

TABLE: (Final Degradation (%))				P
Sample	Pmp initial test	Pmp Final test	Degradation (%)	-
1 (control)	551.56	549.14	-	-
2	551.81	540.31	-2.08	P
3	551.77	539.77	-2.17	P

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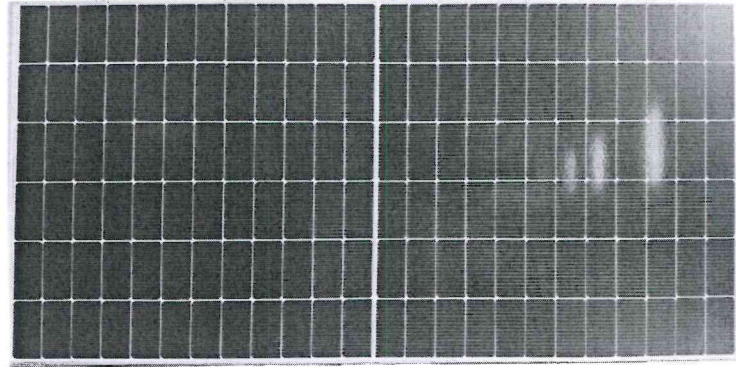
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Attachment-I
Photo Document
Front view of PV module



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Dated: 30/05/2025

Date of Starting of test: 24/03/2025**Date of Completion of test: 30/05/2025**-For report verification email to report_verify@delhitesthouse.com

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