



LABORATORY TEST REPORT

Crystalline PV Modules

STATIC MECHANICAL LOAD TEST

Work Order Number

WO24-E000938

Order Reference

DUA-Lab testing 3

Laboratory

Dekra Shanghai

Test location

Shanghai, China

Report Date

26-Jan-2025

Report No.

STS-LAB16-WO24-E000938-2025-1-26

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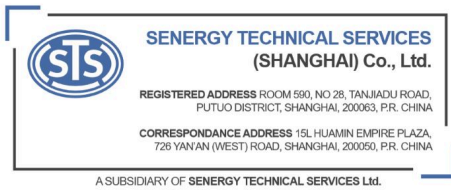
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LABORATORY TEST REPORT

Work Order Number	WO24-E000938
Record Number	2931811001254171195
Lot Number	1
Lot Sequence	Full Lot
Inspection Sequence	First Inspection
Laboratory	Dekra Shanghai
Test	LAB.16 Static Mechanical Load Test

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OUTLINE

1. RESULTS SUMMARY AND CONCLUSION APPROVAL
2. WITNESS OF SAMPLES LOADING INTO TRUCK (if applicable)
3. PRE-STRESS TEST RESULT
4. TESTS RESULTS
5. POST-STRESS TEST RESULT
6. TEST WITNESS(if applicable)
7. NON-CONFORMITY SHEETS (if applicable)

GENERAL INFORMATION

Work Order Number	WO24-E000938
Order Reference	DUA-Lab testing 3
Lot Number	1
Lot Sequence	Full Lot
Inspection Sequence	First Inspection
Lot Size (in pcs)	2160
Inspection / Test	LAB.16 Static Mechanical Load Test
Laboratory	Dekra Shanghai
Applicable Standard	Client QAP

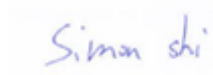
Serial Number	Nominal Power	Product Type
DS453924120343001491	600.00	DS600-144M10T-03

1. RESULTS SUMMARY AND CONCLUSION APPROVAL

1.1 RESULTS SUMMARY

Test Conditions	IEC 61215-2 validate installation manual content. 5400pa	
Sampling Standard	Customized	
Acceptance Criteria Applied	IEC standard requirements	
Inspection Level	Customized	
Sample Size	1	
Difference between Pmpp(retest) and Pmpp(FQC) - LOWER limit in %		
Total Nb of Cr	0	
Total Nb of Ma	0	
Total Nb of Mi	0	
CONCLUSION	PASS	

1.2 REVIEW AND APPROVAL

PREPARED BY	Laboratory Engineer	
REVIEWED BY	Report Auditor	
APPROVED BY	Technical Department Director	



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A SUBSIDIARY OF SEENERGY TECHNICAL SERVICES LTD.

SAMPLES LOADING
WITNESS REPORT

Work Order Number	WO24-E000222-03
ID	2931811001233114781
Inspection Date	31-Dec-2024 10:30:27
Edited by	Daniel Xie
Lot Number	204
Lot Sequence	Initial Test
Inspection Sequence	Full Lot

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2. SAMPLES LOADING WITNESS

2.1. INSPECTION RECORDS AND CONCLUSION

Samples selected for		Tests at External Laboratory	Serial Number
Number of samples		8	DS453924120343001488
			DS453924120343001475
Quantity of Samples in conformity with the sample size?		YES	DS453924120343001483
			DS453924120343001499
			DS453924120343001443
Samples packaging and packing method qualified?		YES	DS453924120343001491
			DS453924120343001591
Label content in conformity with the order requirement?		YES	DS453924120343001230
Packing List in conformity with the selected samples and requirements?		YES	
Inspection Conclusion		PASS	
Observations	NIL		

2.2. PHOTOGRAPHIC RECORDS

Picture - Front Side



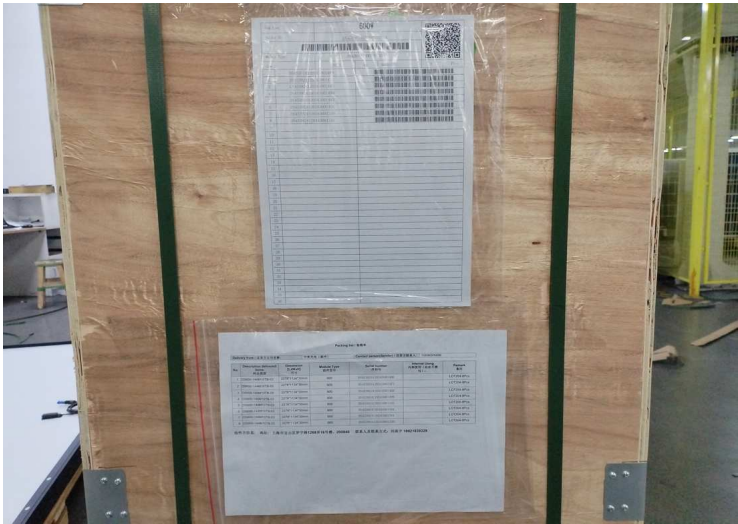
Picture - Back Side & Label



Picture - Pallet/Box



Picture - Packing List



Picture - Truck License Plate



Picture - Products Loaded in the Truck





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LABORATORY

TEST REPORT

Work Order Number	WO24-E000938
Record Number	2931811001254191027
Lot Number	1
Lot Sequence	Full Lot
Inspection Sequence	First Inspection
Laboratory	Dekra Shanghai
Test	LAB.16 Static Mechanical Load Test

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3. PRE-STRESS TESTS RESULTS

3.1. VISUAL INSPECTION

Serial Number	Test Date	Defect Type	Number of Critical Defects	Number of Major Defects	Number of Minor Defects	Evaluation
DS453924120343001491	16-Jan-2025	N/A	0	0	0	PASS

3.2. MAXIMUM POWER DETERMINATION

Serial Number	Test Date	Voc (V)	Vmp (V)	Isc (A)	Imp (A)	Pmpp (W)	FF (%)
DS453924120343001491	16-Jan-2025	53.20	45.17	13.75	13.15	594.01	81.18



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4. STRESS TESTS CONDITIONS & RESULTS

Serial Number	Test Date	Design Load	Safety Factors	Duration per cycle	Mounting Method	Load Applied Rear Side (Pa)	Load Applied Front Side (Pa)	Cycle times	Total hours	Intermittent open-circuit	Evaluation
DS453924120343001491	20-Jan-2025	3600/1600	15	1.00	bolts	2400.00	5400.00	6.00	6.00	NO	PASS



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5. POST-STRESS TESTS RESULTS

5.1. VISUAL INSPECTION

Serial Number	Test Date	Defect Type	Number of Critical Defects	Number of Major Defects	Number of Minor Defects	Evaluation
DS453924120343001491	20-Jan-2025	N/A	0	0	0	PASS

5.2. MAXIMUM POWER DETERMINATION

Serial Number	Test Date	Voc (V)	Vmp (V)	Isc (A)	Imp (A)	Pmpp (W)	FF (%)
DS453924120343001491	20-Jan-2025	53.16	45.12	13.76	13.16	593.82	81.18

5.3. MAXIMUM POWER DEGRADATION

Serial Number	Pmpp(W) initial	Pmpp(W) post	MAXIMUM POWER DEGRADATION(%)	Evaluation
DS453924120343001491	594.01	593.82	-0.03	PASS