



TC- 6168



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**SUMMARY OF TEST REPORT No: 4789985723.1.1-BIS-S2 DATED (mm/dd/yyyy): 12/28/2021****ULR No: TC616821100001024F****(Number of pages in test report: Page no. 01 to 86)****TEST FORMAT AS PER IS/IEC 61730-1:2004 + A1:2017 + A2:2017**

<b>1. Name of manufacturer:</b>	UNIQUE SUN POWER LLP		
<b>2. Product:</b>	Crystalline Silicon Photovoltaic (PV) Modules		
<b>3. Model:</b>	<b>Representative Model: SUN72P335</b> <b>Series Models:</b> 72 Full Cell poly crystalline series models: SUN72P333, SUN72P330, SUN72P325, SUN72P320, SUN72P315, SUN72P310 66 Full Cell poly crystalline series models: SUN66P305, SUN66P300, SUN66P290, SUN66P280 60 Full Cell poly crystalline series models: SUN60P275, SUN60P270, SUN60P265, SUN60P260, 54 Full Cell poly crystalline series models: SUN54P250, SUN54P245, SUN54P240, SUN54P230, 48 Full Cell poly crystalline series models: SUN48P220, SUN48P210, SUN48P205 36 Full Cell poly crystalline series models: SUN36P165, SUN36P160, SUN36P155 36 Cut Cell poly crystalline series models: SUN36P150, SUN36P135, SUN36P130, SUN36P125, SUN36P120, SUN36P110, SUN36P105, SUN36P100, SUN36P090, SUN36P080, SUN36P075, SUN36P070, SUN36P060, SUN36P055, SUN36P050, SUN36P040, SUN36P037, SUN36P030.		
<b>4. Model differences provided (if applicable): Yes/No</b>	YES		
<b>5. Model differences verified as per MNRE Guidelines for series formulation: Yes/No</b>	YES		
<b>6. Test Results:</b>			
<b>SL. NO.</b>	<b>TEST REQUIREMENTS</b>	<b>CLAUSE</b>	<b>VERDICT</b>
1	Application Classes	3	P
2	Construction Requirements	4	P
3	Polymeric Materials	5	P
4	Internal Wiring and current-carrying Parts	6	P
5	Connections	7	P
6	Bonding and Grounding	8	P



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7	Creepage and clearance distances	9	P
8	Field Wiring compartments with covers	10	P
9	Marking	11	P
10	Requirements for supplied documents	12	P

**General Information:**

1. The conformity certificates of critical components are verified to ensure complete testing of Product under test and details regarding harmonized IEC/UL Standards (where IS standards are not available) are also provided in the list of critical component.

**CONCLUSION:**

1. Sample meets all relevant requirements of IS/IEC 61730-1:2004 + A1:2017 + A2:2017: Yes
2. ~~Sample fails to meet the following test requirements:~~

I, hereby, undertake that the verdict stated in the test reports for all the tests matches with the test results. The sample meets all relevant requirements of IS/IEC 61730-1: 2004 + A1:2017 + A2:2017: ~~does not meet the requirements stated above at 2)~~ of conclusion. If any deviation is found, suitable punitive action may be taken by BIS.

**Date(mm/dd/yyyy): 12/28/2021**

**(Signature of Authorized person)**




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Test Report issued under the responsibility of:

<b>TEST REPORT</b> <b>IS/IEC 61730-1:2004+ A1:2017+A2:2017</b> <b>PV Module Safety Qualification</b> <b>Part 1: Requirements for construction</b>	
Report Number.....:	4789985723.1.1-BIS-S2
ULR No. ....:	TC616821100001024F
Test Request No. ....:	SC21SPI00695
Bar code.....:	81548CRS
Encoded No. ....:	21EBD2EN
Date of issue.....(mm/dd/yyyy):	12/28/2021
Total number of pages .....	86
Testing Laboratory .....	UL India Pvt. Ltd.
Address .....	Laboratory Building, Kalyani Platina Campus, Survey. No. 129/4, EPIP Zone, Phase II, Whitefield, IN-560066, Bangalore, India
Applicant's name.....:	UNIQUE SUN POWER LLP
Address .....	BL No. 2281/2/1/1, Sub Plot. 1-A, Near Areth Minnor Canal, Village - Tadheshwar, Ta - Mandvi, Surat, Gujarat, 394170, INDIA
Test specification:	
Standard.....:	IS/IEC 61730-1:2004 (First Edition) + A1:2017+A2:2017
Test procedure.....:	IS/IEC 61730-1:2004 (First Edition) + A1:2017+A2:2017
Non-standard test method.....:	N/A
Test Report Form No. ....:	IS/IEC61730-1_V1.0
Test Report Form(s) Originator .....	BIS
Master TRF.....:	Dated 19.02.2018



<b>Test item description .....</b> :	Photovoltaic (PV) Module(s)
<b>Trade Mark.....</b> :	
<b>Manufacturer.....</b> :	UNIQUE SUN POWER LLP
<b>Address .....</b> :	BL No. 2281/2/1/1, Sub Plot. 1-A, Near Areth Minnor Canal, Village - Tadkeshwar, Ta - Mandvi, Surat, Gujarat, 394170 INDIA
<b>Model/Type reference.....</b> :	<p><b>Representative Model: SUN72P335</b></p> <p><b>Series Models:</b></p> <p>72 Full Cell poly crystalline series models:          SUN72P333, SUN72P330, SUN72P325, SUN72P320,          SUN72P315, SUN72P310</p> <p>66 Full Cell poly crystalline series models:          SUN66P305, SUN66P300, SUN66P290, SUN66P280</p> <p>60 Full Cell poly crystalline series models:          SUN60P275, SUN60P270, SUN60P265, SUN60P260,</p> <p>54 Full Cell poly crystalline series models:          SUN54P250, SUN54P245, SUN54P240, SUN54P230,</p> <p>48 Full Cell poly crystalline series models:          SUN48P220, SUN48P210, SUN48P205</p> <p>36 Full Cell poly crystalline series models:          SUN36P165, SUN36P160, SUN36P155</p> <p>36 Cut Cell poly crystalline series models:          SUN36P150, SUN36P135, SUN36P130, SUN36P125,          SUN36P120, SUN36P110, SUN36P105, SUN36P100,          SUN36P090, SUN36P080, SUN36P075, SUN36P070,          SUN36P060, SUN36P055, SUN36P050, SUN36P040,          SUN36P037, SUN36P030.</p>
<b>Ratings.....</b> :	<p><b>Maximum System Voltage: 1500V</b></p> <p>72 Full Cell poly crystalline models:  <b>SUN72P335</b>, SUN72P333, SUN72P330, SUN72P325,          SUN72P320, SUN72P315, SUN72P310</p> <p>66 Full Cell poly crystalline series models:          SUN66P305, SUN66P300, SUN66P290, SUN66P280</p> <p>60 Full Cell poly crystalline series models:          SUN60P275, SUN60P270, SUN60P265, SUN60P260,</p> <p>54 Full Cell poly crystalline series models:          SUN54P250, SUN54P245, SUN54P240, SUN54P230,</p> <p><b>Maximum System Voltage: 1000V</b></p> <p>48 Full Cell poly crystalline series models:          SUN48P220, SUN48P210, SUN48P205</p> <p>36 Full Cell poly crystalline series models:          SUN36P165, SUN36P160, SUN36P155</p> <p><b>Maximum System Voltage: 600V</b></p> <p>36 Cut Cell poly crystalline series models:          SUN36P150, SUN36P135, SUN36P130, SUN36P125,          SUN36P120, SUN36P110, SUN36P105, SUN36P100,          SUN36P090, SUN36P080, SUN36P075, SUN36P070,          SUN36P060, SUN36P055, SUN36P050, SUN36P040,          SUN36P037, SUN36P030.</p> <p><b>Maximum over current protection rating: 20A</b></p> <p>72 Full Cell poly crystalline models:</p>



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	<p><b>SUN72P335</b>, SUN72P333, SUN72P330, SUN72P325, SUN72P320, SUN72P315, SUN72P310</p> <p><b>Maximum over current protection rating: 15A</b></p> <p>66 Full Cell poly crystalline series models: SUN66P305, SUN66P300, SUN66P290, SUN66P280</p> <p>60 Full Cell poly crystalline series models: SUN60P275, SUN60P270, SUN60P265, SUN60P260,</p> <p>54 Full Cell poly crystalline series models: SUN54P250, SUN54P245, SUN54P240, SUN54P230,</p> <p>48 Full Cell poly crystalline series models: SUN48P220, SUN48P210, SUN48P205</p> <p>36 Full Cell poly crystalline series models: SUN36P165, SUN36P160, SUN36P155</p> <p>36 Cut Cell poly crystalline series models: SUN36P150, SUN36P135, SUN36P130, SUN36P125, SUN36P120, SUN36P110, SUN36P105, SUN36P100, SUN36P090, SUN36P080, SUN36P075, SUN36P070, SUN36P060, SUN36P055, SUN36P050, SUN36P040, SUN36P037, SUN36P030</p> <p>See specific model rating in General Product information</p>
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