




<b>Prüfbericht-Nr.:</b> Test report no.:	<b>CN24YHNA 001</b>	<b>Auftrags-Nr.:</b> Order no.:	326051417	Seite 1 von 11 Page 1 of 11
<b>Kunden-Referenz-Nr.:</b> Client reference no.:	2496578	<b>Auftragsdatum:</b> Order date:	10/09/2024	
<b>Auftraggeber:</b> Client:	<b>Sany Silicon Energy (Zhuzhou) Co., Ltd.</b> No.333 Qingxia Road, Tongtangwan Street, Shifeng District, Zhuzhou City, 412005, Hunan Province, P.R. China			
<b>Prüfgegenstand:</b> Test item:	Photovoltaic (PV) module			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type no.:	See module type designation on page 3			
<b>Auftrags-Inhalt:</b> Order content:	Dust and sand test for photovoltaic (PV) modules			
<b>Prüfgrundlage:</b> Test specification:	IEC 60068-2-68:1994 Environmental testing for electric and electronic products-Part 2: Test methods-Test L: Dust and sand			
<b>Wareneingangsdatum:</b> Date of sample receipt:	Refer to test report No. CN236B78 001			
<b>Prüfmuster-Nr.:</b> Test sample no.:	Refer to test report No. CN236B78 001			
<b>Prüfzeitraum:</b> Testing period:	Refer to test report No. CN236B78 001			
<b>Ort der Prüfung:</b> Place of testing:	Refer to page 5			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von:</b> tested by:	X 		<b>genehmigt von:</b> authorized by:	X 
<b>Datum:</b> Date:	17/10/2024 <small>Signed by: Jun Huang</small>	<b>Ausstellungsdatum:</b> Issue date:	17/10/2024 <small>Signed by: Anderson Ruan</small>	
<b>Stellung / Position:</b>	Project Engineer	<b>Stellung / Position:</b>	Authorizer	
<b>Sonstiges / Other:</b>	- Basic qualification for module types listed on page 3. - The required tests were performed according to the standard IEC 60068-2-68:1994 and the given pass criteria is according to IEC 61215-2:2021 & IEC 61730-2:2023.			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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**Anmerkungen**  
Remarks

- |          |  |
|----------|--|
| <b>1</b> | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>  |
| <b>2</b> | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: <a href="https://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: <a href="https://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| <b>3</b> | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>   |
| <b>4</b> | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>   |

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**Produktbeschreibung**  
Product description

1	<b>Produktdetails</b> Product details	<p><b>New module types:</b>  <b>Max. System Voltage: up to 1500 VDC (Voc at STC):</b>  <b>With cut of mono c-Si cells: (Under STC)</b>            SYMN156TBDxxx (xxx=615-645, in steps of 5, 156 cells)            SYMN144TBDxxx (xxx=555-595, in steps of 5, 144 cells)            SYMN120TBDxxx (xxx=455-495, in steps of 5, 120 cells)            SYMN108TBDxxx (xxx=415-445, in steps of 5, 108 cells)            SYMN108TBDBxxx (xxx=415-445, in steps of 5, 108 cells)            SYMN108TBDFOBxxx (xxx=415-445, in steps of 5, 108 cells)            SYMN144R01TBDxxx (xxx=590-620, in steps of 5, 144 cells)            SYMN120R01TBDxxx (xxx=490-520, in steps of 5, 120 cells)            SYMN108R01TBDxxx (xxx=440-470, in steps of 5, 108 cells)            SYMN156R02TBDxxx (xxx=650-675, in steps of 5, 156 cells)            SYMN156TBDOxxx (xxx=615-645, in steps of 5, 156 cells)            SYMN156TBDLxxx (xxx=615-645, in steps of 5, 156 cells)</p> <p><b>With cut of mono c-Si cells: (Under BNPI)</b>            SYMN156TBDxxx (xxx=677-710, 156 cells)            SYMN144TBDxxx (xxx=611-655, 144 cells)            SYMN120TBDxxx (xxx=501-545, 120 cells)            SYMN108TBDxxx (xxx=457-490, 108 cells)            SYMN108TBDBxxx (xxx=457-490, 108 cells)            SYMN108TBDFOBxxx (xxx=457-490, 108 cells)            SYMN144R01TBDxxx (xxx=649-682, 144 cells)            SYMN120R01TBDxxx (xxx=539-572, 120 cells)            SYMN108R01TBDxxx (xxx=484-517, 108 cells)            SYMN156R02TBDxxx (xxx=715-743, 156 cells)            SYMN156TBDOxxx (xxx=677-710, 156 cells)            SYMN156TBDLxxx (xxx=677-710, 156 cells)</p> <p>xxx represents output power in Wp</p>
2	<b>Verwendete Materialien</b> Used materials	see Constructional Data Form (CDF) no. CN24YHNA 001

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**Produktbeschreibung**  
Product description

3	<b>Adresse(n) der Fertigungsstätte(n)</b> <i>Address(es) of the manufacturing site(s)</i>	<table border="1"> <tr> <td>Name / Description:</td> <td>Sany Silicon Energy (Zhuzhou) Co., Ltd.</td> </tr> <tr> <td>Street:</td> <td>No.333 Qingxia Road, Tongtangwan Street, Shifeng District,</td> </tr> <tr> <td>Postcode / City, Country:</td> <td>412005 / Zhuzhou City, Hunan Province, P.R. China</td> </tr> <tr> <td>Type of production:</td> <td>Crystalline PV-module</td> </tr> <tr> <td>Inspection report No. and date</td> <td>CN23RWL8 002 / 13/05/2024</td> </tr> </table> <table border="1"> <tr> <td>Name / Description:</td> <td>Sany Silicon Energy (Shuozhou) Co., Ltd.</td> </tr> <tr> <td>Street:</td> <td>No.2-1, Weier Road, Pinglu Economic Development Zone,</td> </tr> <tr> <td>Postcode / City, Country:</td> <td>036899 / Shuozhou City, Shanxi Province, P.R. China</td> </tr> <tr> <td>Type of production:</td> <td>Crystalline PV-module</td> </tr> <tr> <td>Inspection report No / Inspection date</td> <td>CN24UWQX 001 / 22/08/2024</td> </tr> </table>	Name / Description:	Sany Silicon Energy (Zhuzhou) Co., Ltd.	Street:	No.333 Qingxia Road, Tongtangwan Street, Shifeng District,	Postcode / City, Country:	412005 / Zhuzhou City, Hunan Province, P.R. China	Type of production:	Crystalline PV-module	Inspection report No. and date	CN23RWL8 002 / 13/05/2024	Name / Description:	Sany Silicon Energy (Shuozhou) Co., Ltd.	Street:	No.2-1, Weier Road, Pinglu Economic Development Zone,	Postcode / City, Country:	036899 / Shuozhou City, Shanxi Province, P.R. China	Type of production:	Crystalline PV-module	Inspection report No / Inspection date	CN24UWQX 001 / 22/08/2024
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Inspection report No / Inspection date	CN24UWQX 001 / 22/08/2024																					
4	<b>Sonstiges</b> <i>Other</i>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer. Throughout this report a point is used as the decimal separator.																				
5	<b>Prüfmusterbereitstellung</b> <i>Test sample obtaining</i>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group  <input type="checkbox"/> others:																				

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**Produktbeschreibung**  
Product description

6	<p><b>Zusammenfassung der Prüfergebnisse</b> Summary of test results</p>	<p>According to the inquiry the resistance to dust and sand of photovoltaic (PV) modules should be accessed in accordance with IEC 60068-2-68:1994.</p> <p>The tests documented within this test report were performed according to IEC 60068-2-68:1994, the related pass criteria is according to IEC 61215-2:2021 &amp; IEC 61730-2:2023 which is listed as below:</p> <ul style="list-style-type: none"> <li>- Visual inspection (MQT 01 / MST 01)</li> <li>- Maximum power determination (MQT 02 / MST 02)</li> <li>- Basic qualification testing for model types on page 3. The relevant tests were performed on the representative modules with the module types SYMN144TBDxxx and test results are documented in this test report No. CN236B78 001. The module types have been approved based on test report No. CN24PF66 001-004 according to standards IEC 61215: 2021 and IEC 61730: 2023.</li> <li>- The differences of module types are as below: <ul style="list-style-type: none"> <li>1. SYMN156TBDxxx series are for module with 182.2 x 91mm &amp; 182.2 x 91.875mm Topcon solar cells (156 pcs).</li> <li>2. SYMN144TBDxxx series are for module with 182.2 x 91mm &amp; 182.2 x 91.875mm Topcon solar cells (144 pcs).</li> <li>3. SYMN120TBDxxx series are for module with 182.2 x 91mm &amp; 182.2 x 91.875mm Topcon solar cells (120 pcs).</li> <li>4. SYMN108TBDxxx series are for module with 182.2 x 91mm &amp; 182.2 x 91.875mm Topcon solar cells (108 pcs).</li> <li>5. SYMN144R01TBDxxx series are for module with 182.2mm x 95.8mm Topcon solar cells (144 pcs).</li> <li>6. SYMN120R01TBDxxx series are for module with 182.2mm x 95.8mm Topcon solar cells (120 pcs).</li> <li>7. SYMN108R01TBDxxx series are for module with 182.2mm x 95.8mm Topcon solar cells (108 pcs).</li> <li>8. SYMN108TBDBxxx series are for module with 182.2 x 91mm &amp; 182.2 x 91.875mm Topcon solar cells (108 pcs), letter "TBDB" is the same as "TBD" except for the color is black.</li> <li>9. SYMN156R02TBDxxx series are for module with 191.6 x 91.1mm Topcon solar cells (156 pcs).</li> </ul> </li> <li>- Constructional check and maximum power determination were performed on the representative model type SYMN156TBD625.</li> </ul> <p>This report have to be read in conjunction with Constructional Data Form (CDF) No. CN24YHNA 001 and test report No. CN236B78 001 &amp; CN24PF66 001-004.</p> <p>This test report includes a history of reporting and certification and photo in the appendix.</p> <p>Summary of test location: All the tests were performed at TÜV Rheinland (Suzhou) Co., Ltd., which is located at No.14 building and north half of No.10 workshop building, No.525, Yuewang Lingang South Road, Pingqian (Taicang) Modern Industrial Park, Shaxi Town, Taicang City, Jiangsu Province, P.R. China</p>
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**Produktbeschreibung**  
*Product description*

**Setting of tasks:**

According to the IEC 60068-2-68:1994 standard, following measurements shall be performed for each combination:

- Initial visual inspection according to MQT01 of IEC 61215-2:2021 (3 PV modules)
- Initial maximum power determination according to MQT02 of IEC 61215-2:2021 (3 PV modules)
- Initial measurement of insulation test according to MQT03 of IEC 61215-2:2021 (3 PV modules)
- Initial measurement of wet leakage current test according to MQT15 of IEC 61215-2:2021 (3 PV modules)
- Initial ground continuity test according to MST 13 of IEC 61730-2:2023 (3 PV modules)
- Initial electroluminescence measurement (3 PV modules)
- Dust and sand test according to IEC60068-2-68:1994 (2 PV modules)  
(Test condition: Method Lc2; Chamber temperature: 41.8~43.5°C /42.1~43.3°C; Humidity: 4.5~5.7%/4.3~5.4%; Dust/sand type: Quart, 95% SiO<sub>2</sub>; Particle size: Average 0.5mm; Speed: 18.6~20.4m/s / 19.1~20.4m/s; Dust/sand concentration: 4.8-5.3g/m<sup>3</sup>; Duration: 240 min for front side and 240min for rear side)
- Final visual inspection according to MQT01 of IEC 61215-2:2021 (2 PV modules)
- Final maximum power determination according to MQT02 of IEC 61215-2:2021 (2 PV modules)
- Final measurement of insulation test according to MQT03 of IEC 61215-2:2021 (2 PV modules)
- Final measurement of wet leakage current test according to MQT15 of IEC 61215-2:2021 (2 PV modules)
- Final ground continuity test according to MST 13 of IEC 61730-2:2023 (2 PV modules)
- Final bypass diode functionality test according to MST 07 of IEC 61730-2:2023 (2 PV modules)
- Final electroluminescence measurement (2 PV modules)

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**Produktbeschreibung**  
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**Reference standards are as follows:**

- IEC 60068-2-68:1994 Environmental testing for electric and electronic products-Part 2: Test methods-Test L: Dust and sand.
- IEC 61215-2:2021 Crystalline silicon terrestrial photovoltaic (PV) modules – Design qualification and type approval.
- IEC 61730-2:2021 Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing.

**General information**

**Abbreviations used in the report:**

Pmpp	– Maximum power	Vmpp	– Maximum power voltage
Impp	– Maximum power current	Voc	– Open circuit voltage
Isc	– Short circuit current	FF	– Fill factor
STC	– Standard Test Conditions		

**Possible test case verdicts:**

- test case does not apply to the test object.....: N/A
- test object does meet the requirement.....: Pass (P)
- test object does not meet the requirement.....: Fail (F)

**Date(s) of performance of tests.....:** Refer to test report No. CN236B78 001

**General remarks:**

The test verdicts 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.  
“(see Enclosure #)” refers to additional information appended to the report.  
“(see appended table)” refers to a table appended to the report.  
Throughout this report a point is used as the decimal separator.

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis Result
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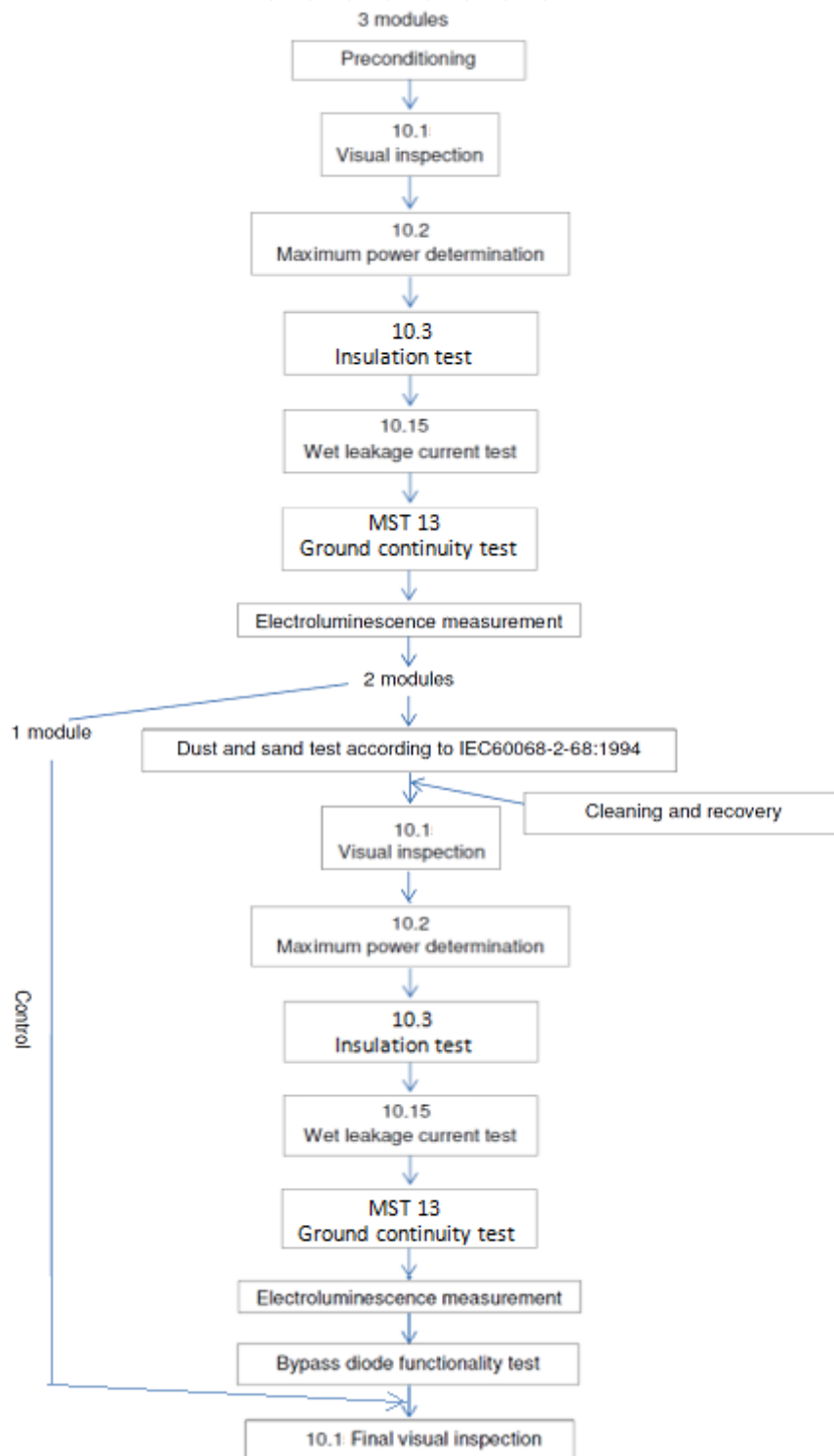
List of test samples Module type: SYMN156TBD625			
Sample no.	Sample SN	Remarks / constructional characteristics (e.g. cell, backsheet, frame type)	
1	312012090004	<p>Front cover: 2.0mm External AR Coating Tempered Glass from Hunan Kibing Solar Technology Co., Ltd. Encapsulation material: EP304 (between glass and cell) / F406PS (between cell and back glass) from HANGZHOU FIRST APPLIED MATERIAL CO., LTD. Rear cover: 2.0mm Semi-Tempered back glass from Hunan Kibing Solar Technology Co., Ltd. Solar Cell: SYCN182T16 from Sany Silicon Energy (Zhuzhou) Co., Ltd. Frame: 30mm, 6005-T6 from CHANGSHU DONGNENG SOLAR TECHNOLOGY CO., LTD Adhesive of frame sealing: HT906Z from Shanghai Huitian New Material Co., Ltd. Cell connector: Φ0.26mm Sn60/Pb40 from Suzhou YourBest New-type Materials Co., Ltd. String connector: 6.0mm x 0.3mm, 4.0mm x 0.3mm Sn60/Pb40 from Suzhou YourBest New-type Materials Co., Ltd. Fluxing agent: SF180 from ASAHI SOLDER TECHNOLOGY(WUXI) CO., LTD Fixing Tape: D60F6-2 from SuZhou Rongzhi Electronic Technology Co., Ltd Junction box: 3Qxy from QC Solar (Suzhou) Corporation Cable: 62930 IEC 131 1 x 4.0mm<sup>2</sup> from QC Solar (Suzhou) Corporation Connector: QC4.10-cds from QC Solar (Suzhou) Corporation Bypass diode: QCM4045 from QC Solar (Suzhou) Corporation Adhesive of J-Box sealing: HT906Z from Shanghai Huitian New Material Co., Ltd. Potting Material in junction box: 5299W-S from Shanghai Huitian New Material Co., Ltd.</p>	—
Remark: N/A			

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis Result
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### Test sequence and test sample requirement



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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis Result
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<b>10.1</b>	<b>Visual inspection (Initial)-MQT 01/MST 01</b>		
Test date (dd/mm/yyyy)		26/01/2024	
Sample no.	Requirement	Nature and position of initial findings	—
1	No major visual defects	No major visual defects	P
Supplementary information: N/A			

10.2	Maximum power determination (Initial)-MQT 02/MST 03						
Test date (dd/mm/yyyy)			26/01/2024				—
Test method			<input checked="" type="checkbox"/> Simulator <input type="checkbox"/> Natural sunlight				
Ambient temperature [°C]			25 ± 2				
Irradiance [W/m²]			1000 ± 10				
Module temperature [°C]			25 ± 2				
Sample no.	P <sub>max</sub> [W]	V <sub>mpp</sub> [V]	I <sub>mpp</sub> [A]	V <sub>oc</sub> [V]	I <sub>sc</sub> [A]	FF [%]	—
1	626.6	48.12	13.022	56.59	13.722	80.7	
Supplementary information: N/A							

--- Ende des Prüfberichts / End of Test Report ---

FOTO-DOKUMENTATION  
 PHOTO DOCUMENTATION

Appendix A: Photos



Fig. 1: front view of test sample

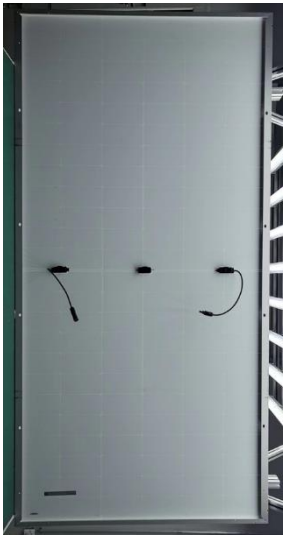


Fig. 2: rear view of test sample



PV MODULE  
 Sany Silicon Energy (Zhuzhou) Co., LTD  
 Sany Energy Equipment Industrial Park,  
 No.320 Qingshui Road, Shifeng District,  
 Zhuzhou City, Hunan Province 412005  
 China  
<https://www.sanyglobal.com/product/>

SYMN156TBD 625  
 Max. power (Pmax) 625W  
 Max. power tolerance +3%  
 Power sorting 0~4.99W  
 Voltage at max. power(Vmpp) 47.14V  
 Current at max. power(Imp) 13.26A  
 Open-circuit voltage(Voc) 55.81V±3%  
 Short-circuit current(Isc) 13.84A±3%

625W  
 +3%  
 0~4.99W  
 47.14V  
 13.26A  
 55.81V±3%  
 13.84A±3%

Series Fuse Rating 30A  
 Maximum system voltage 1500VDC  
 operating temperature range 40°C ~ +85°C  
 protect rage II  
 module wprotecteigh 34.3(kg)  
 module size 2465×1134×30(mm)  
 STC 1000W/m², AM1.5, 25°C

30A  
 1500VDC  
 40°C ~ +85°C  
 II  
 34.3(kg)  
 2465×1134×30(mm)  
 1000W/m², AM1.5, 25°C

warning  
 Only the professionals can install and maintain the components. Be careful of the dangerous high DC voltage when connecting the components. Never damage or scratch the back of the assembly.  
 Certified in accordance with IEC 61215:2016 and IEC 61730:2016  
 MADE IN CHINA

Fig. 3: detail view of type label



Fig. 4: detail view of closed junction box