


Prüfbericht-Nr.: <i>Test report no.:</i>	CN25MWRJ 010	Auftrags-Nr.: <i>Order no.:</i>	326135946	Seite 1 von 19 Page 1 of 19
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	2511779	Auftragsdatum: <i>Order date:</i>	24/10/2025	
Auftraggeber: <i>Client:</i>	Sunpal Power Co., Ltd Room303, 3rd floor, Xincheng Electric Power Industry Building, 398 Ganquan Road, Shushan District, Hefei City, 230000 Anhui, P.R. China			
Prüfgegenstand: <i>Test item:</i>	Photovoltaic (PV) module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	See module type designation on page 3			
Auftrags-Inhalt: <i>Order content:</i>	Issuing a certificate for another manufacturer			
Prüfgrundlage: <i>Test specification:</i>	Photovoltaic (PV) modules IEC 61215-1:2021; IEC 61215-1-1:2021; IEC 61215-2:2021; IEC 61730-1:2023; IEC 61730-2:2023; EN IEC 61215-1:2021; EN IEC 61215-1-1:2021; EN IEC 61215-2:2021; EN IEC 61730-1:2018; EN IEC 61730-2:2018.			
Wareneingangsdatum: <i>Date of sample receipt:</i>	02/07/2025			
Prüfmuster-Nr.: <i>Test sample no.:</i>	Refer to page 5			
Prüfzeitraum: <i>Testing period:</i>	26/10/2025			
Ort der Prüfung: <i>Place of testing:</i>	Refer to page 4			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	<u>X Hannah Gao</u>	genehmigt von: <i>authorized by:</i>	<u>X Jamie Mao</u>	
Datum: <i>Date:</i> 03/11/2025	<small>Signed by: Hannah Gao</small>	Ausstellungsdatum: <i>Issue date:</i> 03/11/2025	<small>Signed by: Jamie Mao</small>	
Stellung / Position:	Project Engineer	Stellung / Position:	Authorizer	
Sonstiges / <i>Other:</i>	Attachment: Photo documentation (5 pages). Declaration for Issuing a certificate for another manufacturer (3 pages). Declaration of Original Sign (3 pages).			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
<small>* Legende:</small>	<small>P(ass) = entspricht o.g. Prüfgrundlage(n)</small>	<small>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</small>	<small>N/A = nicht anwendbar</small>	<small>N/T = nicht getestet</small>
<small>* Legend:</small>	<small>P(ass) = passed a.m. test specification(s)</small>	<small>F(ail) = failed a.m. test specification(s)</small>	<small>N/A = not applicable</small>	<small>N/T = not tested</small>
<p>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. <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></p>				

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Anmerkungen
Remarks

- | | |
|---|--|
| 1 | <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.
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> |
| 2 | <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: go.tuv.com/digital-signature</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV 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, TUV 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: go.tuv.com/digital-signature</i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
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.
Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <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 115:2023, 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 115:2023, 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 Produktdetails

Product details

Report-No: CN25MWRJ
 Main licenses: PV 50672643

2 Typenbezeichnung

Type designation

New model types:

Max. System Voltage: up to 1500 VDC (Voc at STC):

With ½ cut of Topcon c-Si cells:

SPxxxM-66HS (xxx = 670-730, in steps of 5, 132 cells, Pmax@BNPI = 743-809)

SPxxxM-66H (xxx = 610-650, in steps of 5, 132 cells, Pmax@BNPI = 676-720)

SPxxxM-54H (xxx = 495-530, in steps of 5, 108 cells, Pmax@BNPI = 549-587)

SPxxxM-48H (xxx = 440-470, in steps of 5, 96 cells, Pmax@BNPI = 488-521)

xxx represents output power in Wp

3 Verwendete Materialien

Used materials

see Constructional Data Form (CDF) No. CN25MWRJ

4 Adresse(n) der Fertigungsstätte(n)

Address(es) of the manufacturing site(s)

Name / Description:	Ningbo Osda Solar Co.,Ltd.
Street:	Building F0001, No.77, Zhuangxing Road, Jiangbei District
Postcode / City, Country:	315000 / Ningbo, Zhejiang, P.R. China
Type of production:	Crystalline PV-module
Inspection report No.and date	CN24IAVY 002 / 29/05/2025

Name / Description:	Shandong Oushengda New Energy Co., Ltd.
Street:	Intersection of Guanzhuang Middle Road and Aeon South Road, Zhengwang Town, Hedong District
Postcode / City, Country:	276028 / Linyi City, Shandong, P.R.China
Type of production:	Crystalline PV-module
Inspection report No.and date	CN24MQBS 002 / 03/06/2025

Remark: Same as listed with Main-License.

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Produktbeschreibung
Product description

5 Zusammenfassung der Prüfergebnisse
Summary of test results

According to the inquiry of the customer a certificate for another manufacture shall be issued that is based on the main license(s) and test reports as listed under 1.

At a representative test sample visual inspection as well as determination of maximum power was performed.

The visual inspection showed conformity with the original certified product. The output power was within the certified tolerance.

This test report includes the checklist following 2 PfG 2516:2014-11 (section 6-9).

Appendix 1: Photo documentation (5 pages).

Appendix 2: Declaration for Issuing a certificate for another manufacturer (3 pages) and declaration of Original Sign (3 pages).

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.

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Bewertung Evaluation
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—	Test specification		
	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements	IEC 61215-1:2021; EN IEC 61215-1:2021	
	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules	IEC 61215-1-1:2021; EN IEC 61215-1-1:2021	
	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 2: Test procedures	IEC 61215-2:2021; EN IEC 61215-2:2021	
	Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction	IEC 61730-1:2023; EN IEC 61730-1:2018	
	Photovoltaic (PV) module safety qualification – Part 2: Requirements for testing	IEC 61730-2:2023; EN IEC 61730-2:2018	

—	Marking		
Name, monogram or symbol of manufacturer	Marked on rating label	P	
Type or model number	Marked on rating label	P	
Serial number	Encapsulated inside module	P	
Polarity of terminals or leads	Marked on connectors	P	
Maximum system voltage	Marked on rating label	P	
Date and place of manufacture	Traceable from serial number	P	

—	List of test samples		
Sample No.	Sample S/N	Module type	
1	668YP24110091213560002	SP710M-66HS	—

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Bewertung Evaluation
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10.1	Visual inspection (Initial) – MQT 01		
Sample No.	Nature and position of initial findings		—
1	No visual defects		P
Supplementary information: N/A			

10.2	Performance at STC (initial) – MQT 06.1						
Test method	<input checked="" type="checkbox"/> Simulator		<input type="checkbox"/> Natural sunlight				—
Ambient temperature [°C]	25 ± 2						
Irradiance [W/m ²]	1000						
Module temperature [°C]	25 ± 0.2						
Sample no.	P _{max} [W]	V _{mpp} [V]	I _{mpp} [A]	V _{oc} [V]	I _{sc} [A]	FF [%]	—
1	714.3	41.06	17.396	48.48	18.281	80.6	P

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6	Produkt Product		
	Äußere Erscheinung des Musters stimmt mit der Fotodokumentation überein. <i>Outer appearance of the drawn sample is same as in photo documentation.</i>	Verified	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Interner Aufbau stimmt mit der Fotodokumentation überein. <i>Internal construction of the drawn sample is same as in photo documentation.</i>	Verified	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Es wurden nur sicherheitsrelevanten Komponenten verbaut, die CDF oder Prüfbericht benannt sind. <i>Only safety relevant components as described in CDF or Test Report have been used in the drawn sample.</i>	Verified	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
7	Typenschild Label		
	Das Typenschild entspricht dem zertifizierten. <i>The label is same as the certified one.</i>	The label is same as the certified one of main license except for information of license holder.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Der Ausweisinhaber, Importeur oder Bevollmächtigte ist auf dem Typenschild benannt. <i>The license holder, importer or authorized representative is displayed in the label.</i>	Verified	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Die Adresse (bei GS zwingend eine aus dem EWR) ist auf dem Typenschild benannt. <i>Complete postal address (for GS it must be a European address) is mentioned in the label.</i>	Verified	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Bei Fail: in Bedienungsanleitung angegeben <i>If fail: in the user manual</i>	N/A	N/A
	Bei Fail: auf der Verpackung angegeben <i>if fail: on packaging</i>	N/A	N/A
	Wenn eine CE Markierung notwendig ist, wurde diese auf dem Typenschild in dem richtigen Layout abgebildet. <i>If CE marking is mandatory, it's on the product and apparently complies with the design restrictions.</i>	Verified	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Wenn ein TÜV Rheinland Zeichen abgebildet ist, entspricht dies den Vorgaben. <i>In event a TUV Mark is displayed it complies with the design restrictions.</i>	—	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Bewertung Evaluation
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8	Bedienungs-, Installations-, Aufbauanleitung User Manual, Installation - / Assembly Manual		
	Liegt in der richtigen Sprache vor, bei GS zwingend in deutscher Sprache, und entspricht dem zertifizierten. <i>Is available in the correct language (German version a must for GS) and the same as certified one.</i>	All technical information keeps the same, except for name and address of license holder, module type.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
	Wenn ein TÜV Rheinland Zeichen abgebildet ist, entspricht dies den Vorgaben. <i>In event a TUV Mark is displayed it complies with the design restrictions.</i>	—	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	Wenn eine Herstelleradresse angegeben ist, wurde diese komplett (bei GS zwingend eine Adresse im EWR) angegeben und stimmt mit der vom Typenschild überein. <i>If the license holder and/or importer, authorized representative is displayed with address, it's complete (for GS it must be a European address) and correlates with the information on the rating label.</i>	—	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	Wenn die Serviceadresse von der vom Hersteller, Importeur oder Bevollmächtigten abweicht, ist das akzeptabel. <i>If the address for service inquiries differs from manufacturer's, importer's or authorized representative's, it's acceptable.</i>	—	N/A
9	Verpackung Packaging		
	Wenn ein TÜV Rheinland Zeichen abgebildet ist, entspricht dies den Vorgaben. <i>In event a TUV Mark is displayed it complies with the design restrictions.</i>	—	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	Der Ausweisinhaber, Importeur und/oder Bevollmächtigte ist mit auf der Verpackung benannt. <i>The license holder, importer and/or authorized representative are displayed with complete address on the packaging.</i>	—	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
	Auf der Verpackung wird das Produkt nicht anders beworben als es die Zertifizierung beschreibt. Z.B. Kinder werden mit der Verpackung explizit angesprochen und aus dem Zertifikat geht hervor, dass es kein Spielzeug ist. <i>Packaging does not imply another use as certified. E.g. the package explicitly addresses but the certificate excludes use by children.</i>	—	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>

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FOTO-DOKUMENTATION
PHOTO DOCUMENTATION

Appendix 1: Photos



Fig. 1: front view of test sample



Fig. 2: rear view of test sample

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FOTO-DOKUMENTATION
PHOTO DOCUMENTATION

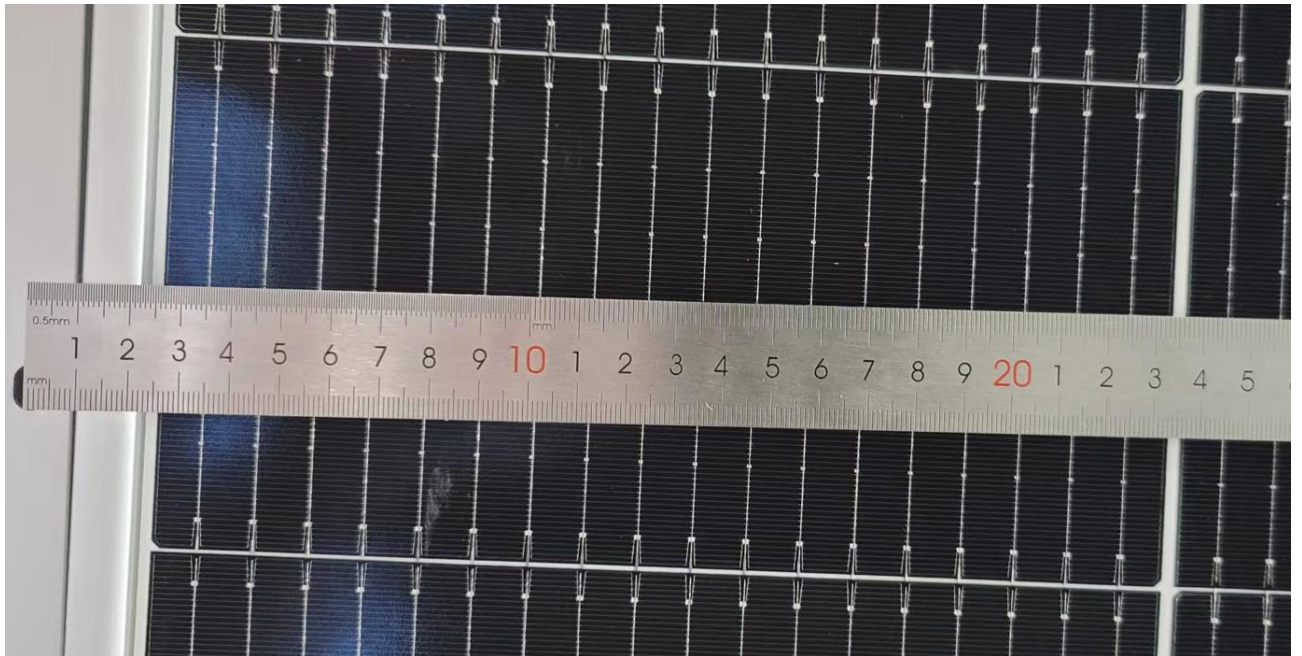


Fig. 3: detail view of solar cell





 Sunpal Power Co., Ltd. Room 303, 3rd floor Xindong Electric Power Industry Building, 388 Ganguan Road, Shushan District, Hefei City, 230000 Anhui, P.R. China Tel: +86 18858418175 Mail: solar24@sunpalpower.com // Web: www.sunpalpower.com	Model: SP710M-66HS Rated Maximum Power (Pmax) 710W±3%W Voltage at Pmax(Vmp) 40.78V Current at Pmax(Imp) 17.41A Open-Circuit Voltage(Voc) 48.84±3%V Short-Circuit Current(Isc) 18.40±3%V Module (T96) max Maximum System Voltage	STC 787W±3%W 48.99±3%V 20.33±3%A 70°C 1500VDC	Maximum Series Fuse Rating Power Selection Cell Technology Weight (Kg) Dimension(mm) Technical performance data recorded at Standard Test Conditions (STC) Am=1.5 E=1000W/m² TC=25°C	30A 0--5W Mono-Si 38.00 2384 * 1303 * 30 Ningbo Ouda Solar Co., Ltd. (PV-ODA09Mx)	BNP1 Front1000W/mf, Rear135W/mf BSI Front1000W/mf, Rear300W/mf aBSI 23.38±3% Bifaciality coefficient: ϕVoc=98±2%, ϕIsc=80±5%, ϕPmax=80±5% Min. Design Load -1600Pa, +3600Pa Connector Manufacturer: Ningbo Ouda Solar Co., Ltd. (PV-ODA09Mx)	WARNING Electrical Hazard Avertissement Risque électrique This unit produces electricity if exposed to light. Cette unité produit de l'électricité si elle est exposée à la lumière. Do not disconnect under load. Ne débranchez pas en charge. Nameplate is posted on rear side of the module	  
	Sunpal Power Co., Ltd.						

Fig. 4: detail view of type label

FOTO-DOKUMENTATION
PHOTO DOCUMENTATION



Fig. 5: detail view of closed junction box



Fig. 6: detail view of connector

FOTO-DOKUMENTATION
PHOTO DOCUMENTATION



Fig. 7: detail view of cable



Fig. 8: detail view of equipotential bonding hole and symbol

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FOTO-DOKUMENTATION
PHOTO DOCUMENTATION

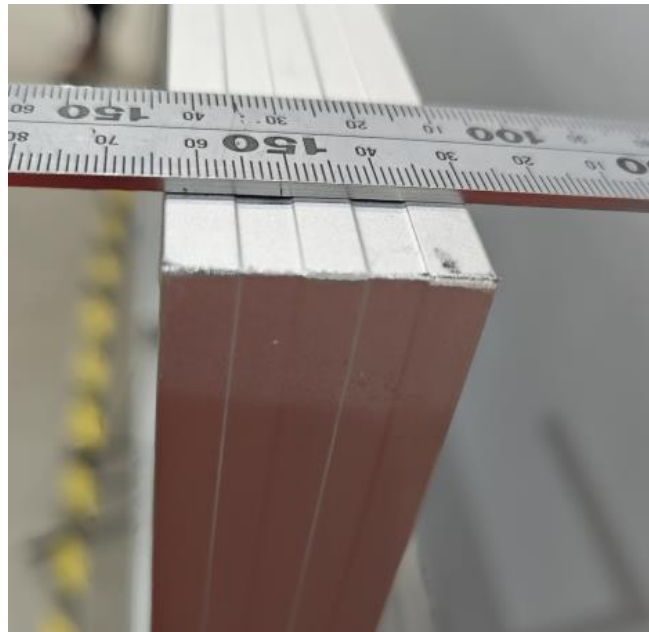


Fig. 9: detail view of frame corner

Declaration

Appendix 2: Declaration for issuing a certificate for another manufacture



Management System Work Instruction

Number: MS-0002440
Attachment: 1
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Confirmation for issuing a certificate for another manufacturer

Main Certificate holder : Ningbo Osda Solar Co.,Ltd.
Main Certificate Number : PV 50672643 0001
Certified Product(s) : PV Module
Certified type designation : see Annex 1
Type designation for new manufacturer: see Annex 1;for rating lable see Annex 2
Name of the new manufacturer :Sunpal Power Co.,Ltd
And address : Room303, 3rd floor,Xincheng Electric Power Industry, Building, 398
Ganquan Road, Shushan District, Hefei City,230000 Anhui, P.R.China
And Contact person with phone no : Steven Yuan +86 18858418175

Please insert rating label for the new certificate product *here*:

If space not sufficient please use reverse side (or separate sheet)

The main certificate holder confirms:

- that the previously certified product and the product referred to on the rating label above are identical in construction including all safety relevant information printed in the user manual or on the product
- his agreement with issuing a certificate for another manufacturer
- the enclosure of a German user manual (only relevant for GS-marked products)
- that he enters into an agreement with the new certificate holder according to **which the new manufacturer may solely receive certificates for trade names for which the new certificate holder has trademark rights protection** and that in case the main license expires or is being cancelled, the certificate for the new certificate holder will also be withdrawn.

The main certificate holder exempts TRLP from any claims that the new certificate holder might raise against TRLP in case of a justified cancellation/withdrawal of the main license.

Ningbo 2025.10.16

Place and Date

Company stamp and legally binding signature
of main license holder



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Declaration



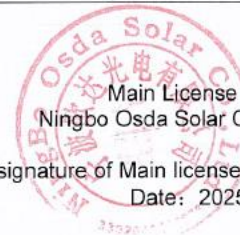
Management System
Work Instruction

Number: MS-0002440
 Attachment: 1
 Revision: 6
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Annex 1

<p>Ningbo Osda Solar Co.,Ltd.</p> <p>Building F0001, No.77, Zhuangxing Road, Jiangbei District Ningbo, Zhejiang, P.R.China</p> <p>+86(0)574-87915068 +86(0)574-88135018</p>	<p>Sunpal Power Co.,Ltd</p> <p>Room303, 3rd floor,Xincheng Electric Power Industry, Building, 398 Ganquan Road, Shushan District, Hefei City,230000 Anhui, P.R.China</p> <p>+86 18858418175</p>
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Certified Type Designation	New Type Designation for Co-licensing
ODAxix-33V-MHD (xxx = 670-730, in steps of 5, 132 cells, Pmax@BNPI = 743-809)	SPxxxM-66HS (xxx = 670-730, in steps of 5, 132 cells, Pmax@BNPI = 743-809)
ODAxix-33V-MHDRz (xxx = 610-650, in steps of 5, 132 cells, Pmax@BNPI = 676-720)	SPxxxM-66H (xxx = 610-650, in steps of 5, 132 cells, Pmax@BNPI = 676-720)
ODAxix-27V-MHDRz (xxx = 495-530, in steps of 5, 108 cells, Pmax@BNPI = 549-587)	SPxxxM-54H (xxx = 495-530, in steps of 5, 108 cells, Pmax@BNPI = 549-587)
ODAxix-24V-MHDRz (xxx = 440-470, in steps of 5, 96 cells, Pmax@BNPI = 488-521)	SPxxxM-48H (xxx = 440-470, in steps of 5, 96 cells, Pmax@BNPI = 488-521)



Main License Holder
 Ningbo Osda Solar Co.,Ltd.

Company stamp/signature of Main license holder
 Date: 2025.10.16

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**Management System
Work Instruction**

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Annex 2

<p>Ningbo Onda Solar Co.,Ltd.</p> <p>Building F0001, No.77, Zhuangxing Road, Jiangbei District Ningbo, Zhejiang, P.R.China</p> <p>+86(0)574-87915068 +86(0)574-88135018</p>	<p>Sunpal Power Co.,Ltd</p> <p>Room303, 3rd floor,Xincheng Electric Power Industry, Building, 398 Ganquan Road, Shushan District, Hefei City,230000 Anhui, P.R.China</p> <p>+86 18858418175</p>
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Samples produce rating labels

 Sunpal Power Co., Ltd. Room303, 3rd floor,Xincheng Electric Power Industry, Building, 398 Ganquan Road, Shushan District, Hefei City,230000 Anhui, P.R.China Tel: +86 18858418175 Mail: ssp@sunpalpower.com / Web: www.sunpalpower.com	<p>Model:SP220M48H6 Rated Maximum Power (P_{max}) 4120W Voltage @ P_{max}(V_{mp}) 41.20V Current @ P_{max}(I_{mp}) 12.20A Open-Circuit Voltage(V_{oc}) 49.02V Short-Circuit Current(I_{sc}) 25.87A Module Efficiency (%) 18.99%</p>	<p>Maximum Series Fuse Rating Power Selection 30A Cell Technology Mono-Si Weight (kg) 2384 ± 130 ± 30 Dimensions(mm) 2384 × 1302 × 36 Technical performance data recorded at Standard Test Conditions (STC) Amplifier: E=1000W/m² TC=25°C</p>	<p>30A BPH B51 25.77±3.5%</p>	<p>From 1000W/m² P_{max} 135W/m² From 1000W/m² P_{max} 200W/m² 25.77±3.5%</p> <p>WARNING Electrical Hazard Avertissement Risque électrique This unit contains electricity. Repairing it, disassembling, or modifying it may cause personal injury or electrical shock. Do not touch any part of the unit. Do not touch any part of the unit. Do not touch any part of the unit.</p>
 Sunpal Power Co., Ltd. Room303, 3rd floor,Xincheng Electric Power Industry, Building, 398 Ganquan Road, Shushan District, Hefei City,230000 Anhui, P.R.China Tel: +86 18858418175 Mail: ssp@sunpalpower.com / Web: www.sunpalpower.com	<p>Model:SP650M-66H Rated Maximum Power (P_{max}) 6500W Voltage @ P_{max}(V_{mp}) 41.22V Current @ P_{max}(I_{mp}) 156A Open-Circuit Voltage(V_{oc}) 49.06V Short-Circuit Current(I_{sc}) 152.02A Module Efficiency (%) 18.99%</p>	<p>Maximum Series Fuse Rating Power Selection 30A Cell Technology Mono-Si Weight (kg) 2342 ± 114 ± 30 Dimensions(mm) 2342 × 1134 × 30 Technical performance data recorded at Standard Test Conditions (STC) Amplifier: E=1000W/m² TC=25°C</p>	<p>30A BPH B51 25.12±3.5%</p>	<p>From 1000W/m² P_{max} 135W/m² From 1000W/m² P_{max} 200W/m² 25.12±3.5%</p> <p>WARNING Electrical Hazard Avertissement Risque électrique This unit contains electricity. Repairing it, disassembling, or modifying it may cause personal injury or electrical shock. Do not touch any part of the unit. Do not touch any part of the unit. Do not touch any part of the unit.</p>
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 Sunpal Power Co., Ltd. Room303, 3rd floor,Xincheng Electric Power Industry, Building, 398 Ganquan Road, Shushan District, Hefei City,230000 Anhui, P.R.China Tel: +86 18858418175 Mail: ssp@sunpalpower.com / Web: www.sunpalpower.com	<p>Model:SP470M-48H Rated Maximum Power (P_{max}) 4700W Voltage @ P_{max}(V_{mp}) 26.80V Current @ P_{max}(I_{mp}) 174.26A Open-Circuit Voltage(V_{oc}) 34.97V Short-Circuit Current(I_{sc}) 18.97A Module Efficiency (%) 19.07%</p>	<p>Maximum Series Fuse Rating Power Selection 30A Cell Technology Mono-Si Weight (kg) 2474 Dimensions(mm) 1922 × 1134 ± 30 Technical performance data recorded at Standard Test Conditions (STC) Amplifier: E=1000W/m² TC=25°C</p>	<p>30A BPH B51 21.48±3.5%</p>	<p>From 1000W/m² P_{max} 135W/m² From 1000W/m² P_{max} 200W/m² 21.48±3.5%</p> <p>WARNING Electrical Hazard Avertissement Risque électrique This unit contains electricity. Repairing it, disassembling, or modifying it may cause personal injury or electrical shock. Do not touch any part of the unit. Do not touch any part of the unit. Do not touch any part of the unit.</p>

Main License Holder
Ningbo Onda Solar Co.,Ltd.
Company stamp/signature of Main license holder
Date: 2025.10.16

Anlage 2 zum Prüfbericht-Nr.: CN25MWRJ 010
APPENDIX 2 to Test report no.:

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Declaration

Declaration of Original Sign:

Ningbo Osda Solar Co.,Ltd.

Sunpal Power Co.,Ltd

Building F0001, No.77, Zhuangxing Road,
Jiangbei District Ningbo, Zhejiang,
P.R.China

Room303, 3rd floor,Xinzheng Electric
Power Industry, Building, 398 Ganquan
Road, Shushan District, Hefei City,230000
Anhui, P.R.China

+86(0)574-87915068
+86(0)574-88135018

+86 18858418175

Declaration of Serial Number

Ref:

1. Application for CO-license for Sunpal Power Co., Ltd dated 16/10/2025
2. Original License No: PV 50672643 0001
3. This is to declare that PV module serial numbers used with the PV modules of above mention CO-license holder

will remain as original licence holder serial number with following nomenclature:

use the below specified nomenclature (use additional page if space not sufficient)

Main License Holder
Ningbo Osda Solar Co.,Ltd.

Co-License Holder
Sunpal Power Co.,Ltd

Company stamp/signature of Main license holder

Company stamp/signature of Co-license holder

Date

Date



Anlage 2 zum Prüfbericht-Nr.: CN25MWRJ 010
APPENDIX 2 to Test report no.:

Seite 18 von 19
Page 18 of 19

Declaration

Ningbo Osda Solar Co.,Ltd.

Sunpal Power Co.,Ltd

Building F0001, No.77, Zhuangxing Road,
Jiangbei District Ningbo , Zhejiang ,
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Anhui, P.R.China

+86(0)574-87915068
+86(0)574-88135018

+86 18858418175

Declaration

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We, Ningbo Osda Solar Co.,Ltd., and Sunpal Power Co.,Ltd hereby declare that for the Co-License that is to be issued for Sunpal Power Co.,Ltd based on main license no. PV 50672643 0001, certified modules will exclusively be produced by Ningbo Osda Solar Co.,Ltd. at factory:Building F0001, No.77, Zhuangxing Road, Jiangbei District Ningbo , Zhejiang , P.R.China and Shandong Oushengda New Energy Co., Ltd. at factory:Intersection of Guanzhuang Middle Road and Aeon South Road, Zhengwang Town, Hedong District, Linyi City, Shandong, 276028 P.R.China

Main License Holder
Ningbo Osda Solar Co.,Ltd.

Co-License Holder
Sunpal Power Co.,Ltd

Company stamp/signature of Main license holder
Date



Company stamp/signature of Co-license holder
Date



