

Prüfbericht-Nr.: Test report no.:	CN23JWNO 030	Auftrags-Nr.: Order no.:	326144288	Seite 1 von 26 Page 1 of 26
Kunden-Referenz-Nr.: Client reference no.:	2545004	Auftragsdatum: Order date:	16/12/2025	
Auftraggeber: Client:	Shenzhen Qiming Photovoltaic Technology Co., Ltd. 201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun Community, Xinhua Street, Guangming District, Shenzhen 518107 Guangdong, P.R.China			
Prüfgegenstand: Test item:	Photovoltaic (PV) module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	See module type designation on page 3			
Auftrags-Inhalt: Order content:	Issuing a certificate for another manufacturer			
Prüfgrundlage: Test specification:	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: Date of sample receipt:	22/12/2025			
Prüfmuster-Nr.: Test sample no.:	Refer to page 6			
Prüfzeitraum: Testing period:	23/12/2025			
Ort der Prüfung: Place of testing:	Refer to page 5			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	☒ <u>Jiayu Song</u>		genehmigt von: authorized by:	☒ <u>Henry J. H. Zhu</u>
Datum: Date:	06/01/2026 Signed by: Jiayu Song		Ausstellungsdatum: Issue date:	06/01/2026 签署者: Henry J. H. Zhu
Stellung / Position:	Project Engineer		Stellung / Position:	Authorizer
Sonstiges / Other:	Attachment: Photo documentation (2 pages). Declaration for Issuing a certificate for another manufacturer (4 pages). Declaration of Original Sign (11 pages).			
Zustand des Prüfgegenstandes bei Anlieferung: 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				
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>				

Prüfbericht-Nr.: CN23JWNO 030
Test report no.:

Seite 2 von 26
Page 2 of 26

Anmerkungen
Remarks

1	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. <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>
2	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 <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: go.tuv.com/digital-signature</i>
3	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. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	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. <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>

Prüfbericht-Nr.: CN23JWNO 030
Test report no.:

Seite 3 von 26
Page 3 of 26

Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i> Report-No: CN23JWNO Main licenses: PV 50614584
2	Typenbezeichnung <i>Type designation</i> New model types: Max. System Voltage: Up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells (Under STC): QM182AHCD-xxx-72 (xxx=585-630, in steps of 5, 144 cells) QM188AHCDE-xxx-60 (xxx=490-525, in steps of 5, 120 cells) QM188AHCDE-xxx-54 (xxx=440-475, in steps of 5, 108 cells) QM188AHCD-xxx-60 (xxx=490-515, in steps of 5, 120 cells) QM188AHCD-xxx-54 (xxx=440-475, in steps of 5, 108 cells) QM210AHCD-xxx-66 (xxx=610-665, in steps of 5, 132 cells) QM192AHCD-xxx-72 (xxx=610-655, in steps of 5, 144 cells) QM210AHCD-xxx-78 (xxx=740-790, in steps of 5, 156 cells) QM192AFCDE-xxx-54 (xxx=445-500, in steps of 5, 108 cells) QM192AFCDE-xxx-54 (xxx=445-500, in steps of 5, 108 cells) QM192AFCDE-xxx-60 (xxx=490-555, in steps of 5, 120 cells) QM192AFCDE-xxx-60 (xxx=490-555, in steps of 5, 120 cells) QM192AFCDE-xxx-72 (xxx=610-675, in steps of 5, 144 cells) With 1/2 cut of mono c-Si cells (Under BNPI): QM182AHCD-xxx-72 (xxx=615-660, in steps of 5, 144 cells) QM188AHCDE-xxx-60 (xxx=515-550, in steps of 5, 120 cells) QM188AHCDE-xxx-54 (xxx=460-495, in steps of 5, 108 cells) QM188AHCD-xxx-60 (xxx=515-540, in steps of 5, 120 cells) QM188AHCD-xxx-54 (xxx=460-495, in steps of 5, 108 cells) QM210AHCD-xxx-66 (xxx=660-715, in steps of 5, 132 cells) QM192AHCD-xxx-72 (xxx=665-710, in steps of 5, 144 cells) QM210AHCD-xxx-78 (xxx=815-865, in steps of 5, 156 cells) QM192AFCDE-xxx-54 (xxx=470-525, in steps of 5, 108 cells) QM192AFCDE-xxx-54 (xxx=470-525, in steps of 5, 108 cells) QM192AFCDE-xxx-60 (xxx=520-585, in steps of 5, 120 cells) QM192AFCDE-xxx-60 (xxx=520-585, in steps of 5, 120 cells) QM192AFCDE-xxx-72 (xxx=645-710, in steps of 5, 144 cells) xxx represents output power in Wp Approved model types: Max. System Voltage: Up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells (Under STC): QM182AHCD-xxx-78 (xxx=650-685, in steps of 5, 156 cells) QM182AHCDB-xxx-54 (xxx=440-465, in steps of 5, 108 cells) QM182AFCDE-xxx-78 (xxx=650-685, in steps of 5, 156 cells) With 1/2 cut of mono c-Si cells (Under BNPI): QM182AHCD-xxx-78 (xxx=690-725, in steps of 5, 156 cells) QM182AHCDB-xxx-54 (xxx=460-485, in steps of 5, 108 cells) QM182AFCDE-xxx-78 (xxx=685-720, in steps of 5, 156 cells) xxx represents output power in Wp
3	Verwendete Materialien <i>Used materials</i> see Constructional Data Form (CDF) No. CN23JWNO

Prüfbericht-Nr.: CN23JWNO 030
Test report no.:

Seite 4 von 26
Page 4 of 26

Produktbeschreibung
Product description

4 Adresse(n) der Fertigungsstätte(n)
Address(es) of the manufacturing site(s)

Name / Description:	Guangdong Aiko Solar Technology Co., Ltd.
Street:	No.3, South Qili Avenue, Leping town, Sanshui District
Postcode / City, Country:	Foshan 528137 Guangdong, P.R.China
Type of production:	Crystalline PV-module
Inspection report No / Date:	CN22RFK9 005 / 30/09/2025

Name / Description:	Zhuhai Fushan Aiko Solar Technology Co., Ltd.
Street:	No.681, Fuguo Road, Doumen District
Postcode / City, Country:	Zhuhai 519175 Guangdong, P.R.China
Type of production:	Crystalline PV-module
Inspection report No / Date:	CN23G279 004 / 29/09/2025

Name / Description:	Zhejiang Aiko Solar Technology Co., Ltd.
Street:	No.888, Longqi Road, Suxi Town
Postcode / City, Country:	Yiwu 322009 Zhejiang, P.R.China
Type of production:	Crystalline PV-module
Inspection report No / Date:	CN244YJV 003 / 06/01/2026

Name / Description:	Shandong Aiko Solar Technology Co., Ltd.
Street:	No.168, Zhongxing Avenue, Sungeng Street, Start-up District
Postcode / City, Country:	Jinan 250000 Shandong, P.R.China
Type of production:	Crystalline PV-module
Inspection report No / Date:	CN256MAB 001/ 04/03/2025

Prüfbericht-Nr.: CN23JWNO 030
Test report no.:

Seite 5 von 26
Page 5 of 26

Produktbeschreibung
Product description

5 Zusammenfassung der Prüfergebnisse
Summary of test results

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

At a representative test sample visual inspection/construction check as well as determination of maximum power was performed according to standards IEC 61215: 2021 and IEC 61730: 2023 at CCIC Southern Testing Co., Ltd.

The visual inspection/construction check 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 (2 pages).

Appendix 2: Declaration for Issuing a certificate for another manufacturer (4 pages).

Declaration of Original Sign (11 pages).

Summary of test locations:

All the tests were tested at CCIC Southern Testing Co., Ltd, which is located at Electronic Testing Building, No.43 Shahe Road, Xili Jiedao, Nanshan District, Shenzhen, Guangdong, China.

Prüfbericht-Nr.: CN23JWNO 030

Test report no.:

Seite 6 von 26
Page 6 of 26

Absatz <i>Clause</i>	Anforderungen - Prüfungen / <i>Requirements - Tests</i>	Messergebnisse – Bemerkungen / <i>Measuring results - Remarks</i>	Bewertung <i>Evaluation</i>
--------------------------------	---	---	---------------------------------------

—	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	QMARAAASJD0012512001510	QM210AHCD-775-78(STC)/ QM210AHCD-850-78(BNPI)	

Absatz <i>Clause</i>	Anforderungen - Prüfungen / <i>Requirements - Tests</i>	Messergebnisse – Bemerkungen / <i>Measuring results - Remarks</i>	Bewertung <i>Evaluation</i>
--------------------------------	---	---	---------------------------------------

10.1	Visual inspection – MQT 01		
Sample No.	Nature and position of initial findings		—
1	No visual defects		P
Supplementary information: N/A			

10.2	Performance at STC – MQT 06.1						
Test method			☒ Simulator ☐ Natural sunlight				—
Ambient temperature [°C]			25 ± 2				
Irradiance [W/m²]			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	760.5	49.93	15.233	57.96	16.278	80.6	N/A
Supplementary information: N/A							

Prüfbericht-Nr.: CN23JWNO 030
Test report no.:

Seite 8 von 26
Page 8 of 26

Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Bewertung Evaluation
------------------	---	--	-------------------------

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 ☒ F ☐ N/A ☐ N/T ☐
	Interner Aufbau stimmt mit der Fotodokumentation überein. <i>Internal construction of the drawn sample is same as in photo documentation.</i>	Verified	P ☒ F ☐ N/A ☐ N/T ☐
	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 ☒ F ☐ N/A ☐ N/T ☐
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.	P ☒ F ☐ N/A ☐ N/T ☐
	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 ☒ F ☐ N/A ☐ N/T ☐
	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 ☒ F ☐ N/A ☐ N/T ☐
	Bei Fail: in Bedienungsanleitung angegeben <i>If fail: in the user manual</i>	—	N/A
	Bei Fail: auf der Verpackung angegeben <i>if fail: on packaging</i>	—	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 ☒ F ☐ N/A ☐ N/T ☐
	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 ☐ F ☐ N/A ☒ N/T ☐

Prüfbericht-Nr.: CN23JWNO 030
Test report no.:

Seite 9 von 26
Page 9 of 26

Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Bewertung Evaluation
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.	P ☒ F ☐ N/A ☐ N/T ☐
	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 ☐ F ☐ N/A ☒ N/T ☐
	Wenn eine Herstelleradresse angegeben ist, wurde diese komplett (bei GS zwingend eine Adresse im EWR) angegeben und stimmt mit der vom Typen-schild 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 ☐ F ☐ N/A ☒ N/T ☐
	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 ☐ F ☐ N/A ☒ N/T ☐
	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 ☐ F ☐ N/A ☒ N/T ☐
	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 ☐ F ☐ N/A ☒ N/T ☐

FOTO-DOKUMENTATION
 PHOTO DOCUMENTATION

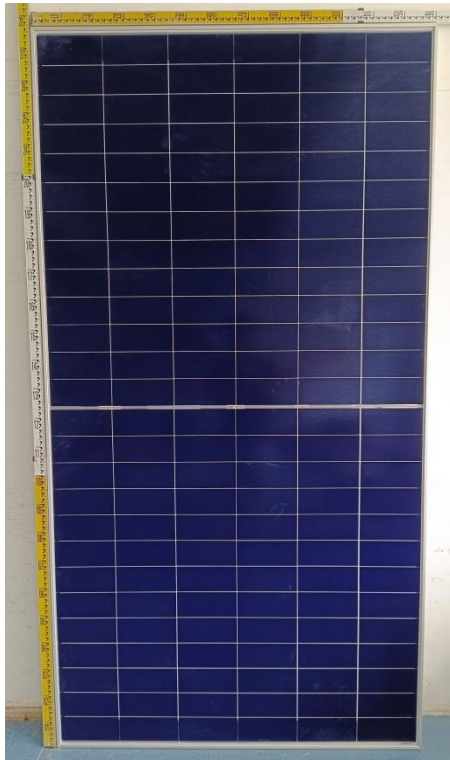


Fig. 1: front view of test sample



Fig. 2: rear view of test sample

Solavita WARNING! Electrical Hazard Do not connect or disconnect under load		Model: QM210AHCD-775-78 <table><tr><td>Test conditions</td><td>STC</td><td>BNPI</td><td>I_{sc}max</td><td>19.86 A±3%</td></tr><tr><td>Maximum Power (Pmax)</td><td>775 W</td><td>850 W</td><td>Protection Class</td><td>Class II</td></tr><tr><td>Open-Circuit Voltage (Voc)</td><td>58.82 V</td><td>58.62 V</td><td>Fire Rating</td><td>Class C</td></tr><tr><td>Short-Circuit Current (Isc)</td><td>16.71 A</td><td>18.34 A</td><td>Connector Manufacturer</td><td>AIKO</td></tr><tr><td>Voltage at Pmax (Vmp)</td><td>48.87 V</td><td>48.90 V</td><td>Connector Type</td><td>AIKO-D1C</td></tr><tr><td>Current at Pmax (Imp)</td><td>15.86 A</td><td>17.38 A</td><td>Power Sorting Tolerance</td><td>0~+3%</td></tr><tr><td>Maximum System Voltage</td><td></td><td>1500V DC</td><td>Pmax & Voc & Isc Tolerance</td><td>±3%</td></tr><tr><td>Maximum Overcurrent Protection Rating</td><td></td><td>30 A</td><td>See manual for all designated connectors</td><td></td></tr></table>				Test conditions	STC	BNPI	I _{sc} max	19.86 A±3%	Maximum Power (Pmax)	775 W	850 W	Protection Class	Class II	Open-Circuit Voltage (Voc)	58.82 V	58.62 V	Fire Rating	Class C	Short-Circuit Current (Isc)	16.71 A	18.34 A	Connector Manufacturer	AIKO	Voltage at Pmax (Vmp)	48.87 V	48.90 V	Connector Type	AIKO-D1C	Current at Pmax (Imp)	15.86 A	17.38 A	Power Sorting Tolerance	0~+3%	Maximum System Voltage		1500V DC	Pmax & Voc & Isc Tolerance	±3%	Maximum Overcurrent Protection Rating		30 A	See manual for all designated connectors		STC: E=1000W/m², AM 1.5, T_a=25°C BSI: E=1000W/m², E_r=300W/m², AM 1.5, T_a=25°C BNPI: E=1000W/m², E_r=135W/m², AM 1.5, T_a=25°C η_pmax: 75.5%; η_{voc}: 99.5%; η_{isc}: 75.5% Min. Design Load: +3800Pa/-1800Pa Module T_amax: 70°C https://www.solavita.com Tested according to IEC 61215:2021 and IEC 61730:2023		 Shenzhen Qiming Photovoltaic Technology Co., Ltd. Add: 201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun Community, Xihu Street, Guangming District, Shenzhen 518107 Guangdong, P.R. China Made in China	
Test conditions	STC	BNPI	I _{sc} max	19.86 A±3%																																													
Maximum Power (Pmax)	775 W	850 W	Protection Class	Class II																																													
Open-Circuit Voltage (Voc)	58.82 V	58.62 V	Fire Rating	Class C																																													
Short-Circuit Current (Isc)	16.71 A	18.34 A	Connector Manufacturer	AIKO																																													
Voltage at Pmax (Vmp)	48.87 V	48.90 V	Connector Type	AIKO-D1C																																													
Current at Pmax (Imp)	15.86 A	17.38 A	Power Sorting Tolerance	0~+3%																																													
Maximum System Voltage		1500V DC	Pmax & Voc & Isc Tolerance	±3%																																													
Maximum Overcurrent Protection Rating		30 A	See manual for all designated connectors																																														

Fig. 3: detail view of type label

Anlage 1 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 1 to Test report no.:

Seite 11 von 26
Page 11 of 26

FOTO-DOKUMENTATION
PHOTO DOCUMENTATION

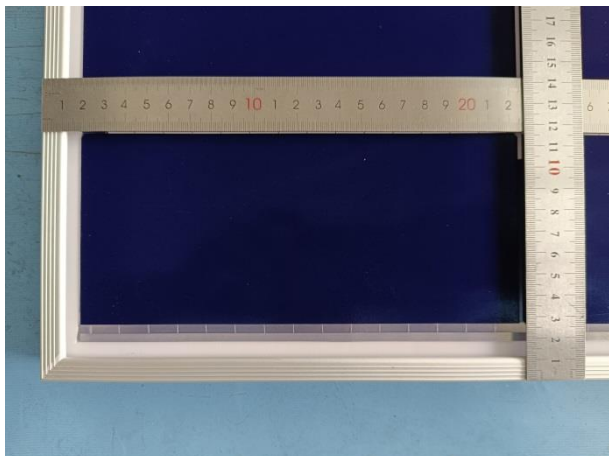


Fig. 4: detail view of solar cell



Fig. 5: detail view of closed junction box



Fig. 6: detail view of connector



Fig. 7: detail view of cable



Fig. 8: detail view of frame corner



Fig. 9: detail view of grounding hole

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 12 von 26
Page 12 of 26

Declaration

Declaration for Issuing a certificate for another manufacturer

 TÜVRheinland®	Management System Work Instruction	Number:	M5-0002440
		Attachment:	1
		Revision:	6
		Page:	1 von 1

Confirmation for issuing a certificate for another manufacturer

Main Certificate holder : Zhejiang Aiko Solar Technology Co.,Ltd.
Main Certificate Number : PV 50614584
Certified Product(s) : PV Module
Certified type designation : See Annex1
Type designation for new manufacturer: See Annex 1; for rating label see Annex 2.
Name of the new manufacturer : Shenzhen Qiming Photovoltaic Technology Co., Ltd.
And address : 201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun
Community, Xihu Street, Guangming District, Shenzhen 518107
Guangdong, P.R.China
And Contact person with phone no :Long Zhuang 17764404810

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.

Yiwu/ 24/11/2025

Place and Date

Company stamp and legally binding signature
of main license holder



Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 13 von 26
Page 13 of 26

Declaration

Annex 1

Zhejiang Aiko Solar Technology Co., Ltd. Address: No.655, Haopai Road, Suxi Town, Yiwu 322009 Zhejiang, P.R.China Tel:13916035894	Shenzhen Qiming Photovoltaic Technology Co., Ltd. 201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun Community, Xinhua Street, Guangming District, Shenzhen 518107 Guangdong, P.R.China Tel: 17764404810
--	--

Certified type designation	New type designation for Co-license
Main License: PV50614584	
Max. System Voltage: Up to 1500 VDC (Voc at STC): With 1/2 cut of mono c-Si cells (Under STC):	
AIKO-Axxx-MAH78Dw (xxx=650-685, in steps of 5, 156 cells)	QM182AHCD-xxx-78(xxx=650-685, in steps of 5, 156 cells)
AIKO-Axxx-MAH72Dw (xxx=585-630, in steps of 5, 144 cells)	QM182AHCD-xxx-72(xxx=585-630, in steps of 5, 144 cells)
AIKO-Axxx-MAH60Dw (xxx=490-525, in steps of 5, 120 cells)	QM188AHCDE-xxx-60(xxx=490-525, in steps of 5, 120 cells)
AIKO-Axxx-MAH54Dw (xxx=440-475, in steps of 5, 108 cells)	QM188AHCDE-xxx-54(xxx=440-475, in steps of 5, 108 cells)
AIKO-Axxx-MAH60Db (xxx=490-515, in steps of 5, 120 cells)	QM188AHCD-xxx-60(xxx=490-515, in steps of 5, 120 cells)
AIKO-Axxx-MAH54Db (xxx=440-475, in steps of 5, 108 cells)	QM188AHCD-xxx-54(xxx=440-475, in steps of 5, 108 cells)
AIKO-Axxx-GRH66Dw (xxx=610-665, in steps of 5, 132 cells)	QM210AHCD-xxx-66(xxx=610-665, in steps of 5, 132 cells)
AIKO-Gxxx-MCH72Dw (xxx=610-655, in steps of 5, 144 cells)	QM192AHCD-xxx-72(xxx=610-655, in steps of 5, 144 cells)
AIKO-Axxx-GRH78Dw (xxx=740-790, in steps of 5, 156 cells)	QM210AHCD-xxx-78(xxx=740-790, in steps of 5, 156 cells)
AIKO-Axxx-MCE54Dw (xxx=445-500, in steps of 5, 108 cells)	QM192AFCDE-xxx-54(xxx=445-500, in steps of 5, 108 cells)
AIKO-Axxx-MCE54Db (xxx=445-500, in steps of 5, 108 cells)	QM192AFCD-xxx-54(xxx=445-500, in steps of 5, 108 cells)
AIKO-Axxx-MCE60Dw (xxx=490-555, in steps of 5, 120 cells)	QM192AFCDE-xxx-60(xxx=490-555, in steps of 5, 120 cells)
AIKO-Axxx-MCE60Db (xxx=490-555, in steps of 5, 120 cells)	QM192AFCD-xxx-60(xxx=490-555, in steps of 5, 120 cells)
AIKO-Axxx-MDE72Dw (xxx=610-675, in steps of 5, 144 cells)	QM192AFCD-xxx-72 (xxx=610-675, in steps of 5, 144 cells)
With 1/2 cut of mono c-Si cells (Under BNPI):	
AIKO-Axxx-MAH78Dw (xxx=690-725, in steps of 5, 156 cells)	QM182AHCD-xxx-78(xxx=690-725, in steps of 5, 156 cells)

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 14 von 26
Page 14 of 26

Declaration

AIKO-Axxx-MAH72Dw (xxx=615-660, in steps of 5, 144 cells)	QM182AHCD-xxx-72(xxx=615-660, in steps of 5, 144 cells)
AIKO-Axxx-MAH60Dw (xxx=515-550, in steps of 5, 120 cells)	QM188AHCDE-xxx-60(xxx=515-550, in steps of 5, 120 cells)
AIKO-Axxx-MAH54Dw (xxx=460-495, in steps of 5, 108 cells)	QM188AHCDE-xxx-54(xxx=460-495, in steps of 5, 108 cells)
AIKO-Axxx-MAH60Db (xxx=515-540, in steps of 5, 120 cells)	QM188AHCD-xxx-60(xxx=515-540, in steps of 5, 120 cells)
AIKO-Axxx-MAH54Db (xxx=460-495, in steps of 5, 108 cells)	QM188AHCD-xxx-54(xxx=460-495, in steps of 5, 108 cells)
AIKO-Axxx-GRH66Dw (xxx=660-715, in steps of 5, 132 cells)	QM210AHCD-xxx-66(xxx=660-715, in steps of 5, 132 cells)
AIKO-Gxxx-MCH72Dw (xxx=665-710, in steps of 5, 144 cells)	QM192AHCD-xxx-72(xxx=665-710, in steps of 5, 144 cells)
AIKO-Axxx-GRH78Dw (xxx=815-865, in steps of 5, 156 cells)	QM210AHCD-xxx-78(xxx=815-865, in steps of 5, 156 cells)
AIKO-Axxx-MCE54Dw (xxx=470-525, in steps of 5, 108 cells)	QM192AFCDE-xxx-54(xxx=470-525, in steps of 5, 108 cells)
AIKO-Axxx-MCE54Db (xxx=470-525, in steps of 5, 108 cells)	QM192AFCD-xxx-54(xxx=470-525, in steps of 5, 108 cells)
AIKO-Axxx-MCE60Dw (xxx=520-585, in steps of 5, 120 cells)	QM192AFCDE-xxx-60(xxx=520-585, in steps of 5, 120 cells)
AIKO-Axxx-MCE60Db (xxx=520-585, in steps of 5, 120 cells)	QM192AFCD-xxx-60(xxx=520-585, in steps of 5, 120 cells)
AIKO-Axxx-MDE72Dw (xxx=645-710, in steps of 5, 144 cells)	QM192AFCD-xxx-72 (xxx=645-710, in steps of 5, 144 cells)
xxx represents output power in Wp	

Main License Holder

Zhejiang Aiko Solar Technology Co., Ltd.

Company stamp/signature of Main license holder

Place and Date: Yiwu/ 24/11/2025

Annex 2

SOLAVITA WARNING! Electrical Hazard Do not connect or disconnect under load	Model: QM210AHCD-775-78 <table border="1"> <thead> <tr> <th>Test conditions</th> <th>ETC</th> <th>BMP1</th> <th>WPS</th> </tr> </thead> <tbody> <tr> <td>Maximum Power (Pin_{tot})</td> <td>775 W</td> <td>850 W</td> <td>18.96 A/1%</td> </tr> <tr> <td>Open-Circuit Voltage (V_{oc})</td> <td>86.62 V</td> <td>88.82 V</td> <td>Class B</td> </tr> <tr> <td>Short-Circuit Current (I_{sc})</td> <td>16.71 A</td> <td>18.24 A</td> <td>Class C</td> </tr> <tr> <td>Voltage at Pmax (V_{mpp})</td> <td>46.07 V</td> <td>48.80 V</td> <td>Connector Manufacturer</td> </tr> <tr> <td>Current at Pmax (I_{mp})</td> <td>15.08 A</td> <td>17.30 A</td> <td>Converter Type</td> </tr> <tr> <td>Maximum System Voltage</td> <td></td> <td>1500V DC</td> <td>Power & Voc & Isc Tolerance</td> </tr> <tr> <td>Maximum Recommended Protection Rating</td> <td></td> <td>30 A</td> <td>See Manual for all designated connectors</td> </tr> </tbody> </table>	Test conditions	ETC	BMP1	WPS	Maximum Power (Pin _{tot})	775 W	850 W	18.96 A/1%	Open-Circuit Voltage (V _{oc})	86.62 V	88.82 V	Class B	Short-Circuit Current (I _{sc})	16.71 A	18.24 A	Class C	Voltage at Pmax (V _{mpp})	46.07 V	48.80 V	Connector Manufacturer	Current at Pmax (I _{mp})	15.08 A	17.30 A	Converter Type	Maximum System Voltage		1500V DC	Power & Voc & Isc Tolerance	Maximum Recommended Protection Rating		30 A	See Manual for all designated connectors	ETC: E=1000W/m² AM 1.5, Tm=25°C BIP: E=1000W/m² E=1000W/m² AM 1.5, Tm=25°C WPS: E=1000W/m² E=1000W/m² AM 1.5, Tm=25°C gPmax: 75.0% gVoc: 96.0% gIsc: 75.0% Min. Design Load: -1000W/m² -1000W Model T_June 19: https://www.solavita.com Tested according to IEC 61215:2016 and IEC 61730:2016	 Shenzhen Qinghai Photovoltaic Technology Co., Ltd. Add: 201 Building 15 Road 2-A, Kigangue Street Third Road, Lianyun Community, Xinhua Street, Guangming District, Shenzhen 518107 Guangdong, P.R. China Made in China
Test conditions	ETC	BMP1	WPS																																
Maximum Power (Pin _{tot})	775 W	850 W	18.96 A/1%																																
Open-Circuit Voltage (V _{oc})	86.62 V	88.82 V	Class B																																
Short-Circuit Current (I _{sc})	16.71 A	18.24 A	Class C																																
Voltage at Pmax (V _{mpp})	46.07 V	48.80 V	Connector Manufacturer																																
Current at Pmax (I _{mp})	15.08 A	17.30 A	Converter Type																																
Maximum System Voltage		1500V DC	Power & Voc & Isc Tolerance																																
Maximum Recommended Protection Rating		30 A	See Manual for all designated connectors																																
SKYWORTH WARNING! Electrical Hazard Do not connect or disconnect under load	Model: QM210AHCD-775-78 <table border="1"> <thead> <tr> <th>Test Conditions</th> <th>ETC</th> <th>BMP1</th> <th>WPS</th> </tr> </thead> <tbody> <tr> <td>Maximum Power (Pin_{tot})</td> <td>775 W</td> <td>850 W</td> <td>18.96 A/1%</td> </tr> <tr> <td>Open-Circuit Voltage (V_{oc})</td> <td>86.62 V</td> <td>88.82 V</td> <td>Class B</td> </tr> <tr> <td>Short-Circuit Current (I_{sc})</td> <td>16.71 A</td> <td>18.24 A</td> <td>Class C</td> </tr> <tr> <td>Voltage at Pmax (V_{mpp})</td> <td>46.07 V</td> <td>48.80 V</td> <td>Connector Manufacturer</td> </tr> <tr> <td>Current at Pmax (I_{mp})</td> <td>15.08 A</td> <td>17.30 A</td> <td>Converter Type</td> </tr> <tr> <td>Maximum System Voltage</td> <td></td> <td>1500V DC</td> <td>Power & Voc & Isc Tolerance</td> </tr> <tr> <td>Maximum Recommended Protection Rating</td> <td></td> <td>30 A</td> <td>See Manual for all designated connectors</td> </tr> </tbody> </table>	Test Conditions	ETC	BMP1	WPS	Maximum Power (Pin _{tot})	775 W	850 W	18.96 A/1%	Open-Circuit Voltage (V _{oc})	86.62 V	88.82 V	Class B	Short-Circuit Current (I _{sc})	16.71 A	18.24 A	Class C	Voltage at Pmax (V _{mpp})	46.07 V	48.80 V	Connector Manufacturer	Current at Pmax (I _{mp})	15.08 A	17.30 A	Converter Type	Maximum System Voltage		1500V DC	Power & Voc & Isc Tolerance	Maximum Recommended Protection Rating		30 A	See Manual for all designated connectors	ETC: E=1000W/m² AM 1.5, Tm=25°C BIP: E=1000W/m² E=1000W/m² AM 1.5, Tm=25°C WPS: E=1000W/m² E=1000W/m² AM 1.5, Tm=25°C gPmax: 75.0% gVoc: 96.0% gIsc: 75.0% Model T_June 19: Min. Design Load: -1000W/m² -1000W https://www.skyworth.com Tested according to IEC 61215:2016 and IEC 61730:2016	 Shenzhen Qinghai Photovoltaic Technology Co., Ltd. Add: 201 Building 15 Road 2-A, Kigangue Street Third Road, Lianyun Community, Xinhua Street, Guangming District, Shenzhen 518107 Guangdong, P.R. China Made in China
Test Conditions	ETC	BMP1	WPS																																
Maximum Power (Pin _{tot})	775 W	850 W	18.96 A/1%																																
Open-Circuit Voltage (V _{oc})	86.62 V	88.82 V	Class B																																
Short-Circuit Current (I _{sc})	16.71 A	18.24 A	Class C																																
Voltage at Pmax (V _{mpp})	46.07 V	48.80 V	Connector Manufacturer																																
Current at Pmax (I _{mp})	15.08 A	17.30 A	Converter Type																																
Maximum System Voltage		1500V DC	Power & Voc & Isc Tolerance																																
Maximum Recommended Protection Rating		30 A	See Manual for all designated connectors																																

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 16 von 26
Page 16 of 26

Declaration

Declaration of Original Sign:

Zhejiang Aiko Solar Technology Co.,
Ltd.

Shenzhen Qiming Photovoltaic
Technology Co., Ltd.

Address:

No.655, Haopai Road, Suxi Town, Yiwu
322009 Zhejiang, P.R.China

Address:

201, Building 10, No. 2-1,
Xiguangyue Third Road, Loucun
Community, Xinhua Street,
Guangming District, Shenzhen
Guangdong 518107, P.R.China

Tel: +86 13916035894

Tel: +86 17764404810

Declaration of Serial Number

Ref:

1. Application for CO-license for Shenzhen Qiming Photovoltaic Technology Co., Ltd. dated 24/11/2025
2. Original License No: PV 50614584
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

Zhejiang Aiko Solar Technology Co., Ltd.

Co-License Holder

Shenzhen Qiming Photovoltaic
Technology Co., Ltd.

Company stamp/signature of Main
license holder



Date: 24/11/2025



Company stamp/signature of
Co-license holder



Date: 24/11/2025



Declaration

Solavita

深圳起明光伏科技有限公司

组件编码规则
 Component coding rules

- ☐ 一级文件 Primary Document
☐ 二级文件 Secondary Document
☒ 三级文件 Tertiary Document

文件编号	文件版本	发布日期
SZQM-WSYF-036	B3	2025/10/08
编制/日期	审核/日期	批准/日期
刘嘉艳 2025/10/08	卢博 2025/10/08	任小宝 2025/10/08

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 18 von 26
Page 18 of 26

Declaration

Solavita

组件编码规则

文件修订履历表

修订日期	版本	修改内容摘要	修订人
2024/1/5	A0	新发行	马伟国
2024/3/25	A1	1、新增加唛头和铭牌格式 2、组件条码编码规则由 20 位变更成 21 位，流水号增加 1 位	黄文明
2024/7/19	A2	1、组件型号增加一位对新产品进行命名定义 2、更新唛头模版和铭牌格式信息	黄文明
2024/8/10	A3	生产工厂代码表新增：AB 安徽赛拉弗和 AC 盐城悦阳光伏	黄文明
2024/11/14	A4	1、增加 3.3.2 降级组件托盘编码 2、附表 02 增加彩色、复合边框、彩色背板/背玻代码 3、增加滁州和百色工厂代码 4、组件型号及条码编码规则，增加 ABC 组件的电池 ABC 黑色组件、单双玻代码	马伟国
2025/2/15	A5	1、3.1 增加光伏瓦版型组件代码（字母 W 表示） 2、3.2 添加 50*6mm 条码打印参数及规范 3、4.1 增加代工厂高景、南玻、中南光电	马伟国
2025/3/3	A6	1、4.1 附表 1 生产工厂代码表中增加代工厂协鑫、晶澳	刘嘉艳
2025/3/28	A7	1、4.1 附表 1 生产工厂代码表中增加代工厂神舟、超隆、国晟淮北	刘嘉艳
2025/4/19	A8	3.1 组件型号命名中更新 182、210 电池片代码描述，210 规格包含（182*210/210*210），删除了“B 代表 ABC 组件黑色边框”描述	刘嘉艳
2025/6/4	A9	3.1 组件型号命名中更新 182 电池片规格归属，包含（182.2*182.2/183.75/187.5）； 3.2 组件条码编码规则工单号由 2 位变更为 3 位，总位数增加 1 位，变为 22 位； 3.2.1 组件条码材质及打印要求描述内容更新； 3.3 组件箱号编码规则工单号由 2 位变更为 3 位，总位数增加 1 位，变为 15 位； 3.5 铭牌格式增加备注描述，规范最大功率打印参照； 4.1 更新代工厂代码，新增合格代工厂弘元；	马伟国
2025/7/14	A10	1、首页增加英文名称，字体及排版优化 4.1、更新代工厂代码，新增合格代工厂； 3.3.1、更新降级箱号规则	马伟国
2025/8/13	B1	3.1 更新 210RT 电池片规格， 4.1 新增合格代工厂海泰、中环、华耀、欧达 4.2 增加间隙贴膜组件背玻代码	马伟国
2025/9/5	B2	3.1 组件产品型号命名规则代码变更优化，更新定义排版 4.1 新增合格代工厂爱旭	马伟国
2025/10/08	B3	3.1 组件产品型号命名规则代码优化，增加副证代码 3.5 铭牌格式更新 3.4 唛头打印输出内容更新 4.1 新增中润代工厂代码	刘嘉艳

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 19 von 26
Page 19 of 26

Declaration

Solavita

组件编码规则

要求：本文件由主导部门组织每年至少评审回顾一次，必要时应对文件进行更新以确保符合使用需求。

1. 目的

规范组件条码编码方式，便于产品质量跟踪与追溯

2. 范围

本文件适用于本公司所生产的所有系列的光伏组件

3. 编码规则

3.1 组件产品型号命名规则

QM 182 T HCD Q -540 -72
1 区 2 区 3 区 4 区 5 区 6 区 7 区

1) 第 1 区：“QM”表示深圳起明；

2) 第 2 区：电池片规格代码

代码	电池片规格	备注
182	182.2*182.2	
	182.2*183.75	
188	182.2*187.5	
192	182.2*192	
210	182.2*210	
	210*210	
210RT	210*182.2	横向印刷

3) 第 3 区：电池类型代码

代码	电池片类型	备注
P	PERC	
H	HJT	
T	TOPcon	
A	BC	

4) 第 4 区：版型代码

代码	版型	备注
EC	单玻整片	
ECD	双玻整片	

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 20 von 26
Page 20 of 26

Declaration

Solavita

组件编码规则

HC	单玻半片	
HCD	双玻半片	
FC	单玻叠瓦	
FCD	双玻叠瓦	

5) 第 5 区:

- ① 起明主证 特殊类型代码, 注: 第五区为特殊类型产品代码, 符合如下表格时显示代码, 后续根据新产品情况进行补充, 其他标准产品此处为空值)

代码	特殊类型	备注
C	炫彩系列	
Q	曲面屏系列	
Z	直面屏系列	
F	复合边框	
W	光伏瓦	

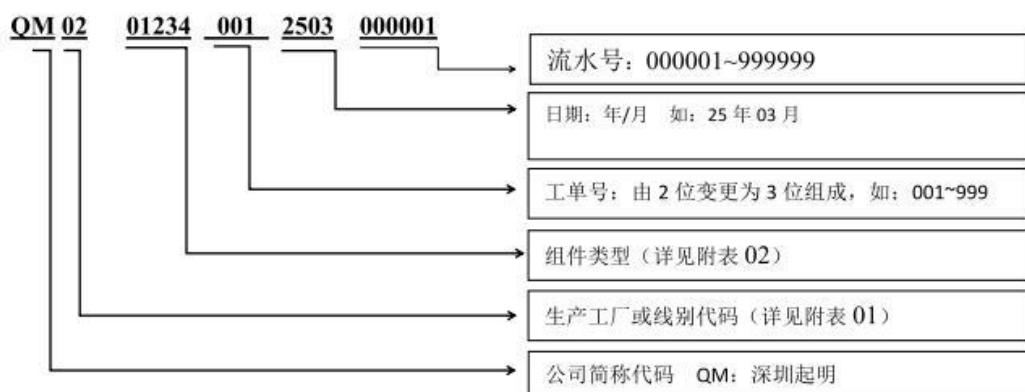
- ② 副证 特殊类型代码, 注: 第五区为特殊类型产品代码, 符合如下表格时显示代码, 后续根据新产品情况进行补充, 其他标准产品此处为空值)

代码	特殊类型	备注
E	全白 (白背白框) 白底黑边 (白背黑边框)	爱旭副证使用

6) 第 6 区: 为标称功率, 如: 430、630、710 等。

7) 第 7 区: 为电池片数量 (整片), 如: 54、66、78 等。

3.2 组件条码编码规则 (22 位):



Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 21 von 26
Page 21 of 26

Declaration

Solavita

组件编码规则

3.2.1 条码材质与规格:

组件条码尺寸: 50*10/50*6mm (具体尺寸见 BOM), 条码使用亚银 PET 材质, 背胶不脱落, 条码打印使用树脂基碳带。

3.2.2 条码使用要求:

组件正面, 背板和边框上各 1 张, 共计 3 张。粘贴位置见各系列组件叠层图与总装图。

3.2.3 条码打印要求:

50*10mm 空白条码使用黑白打印, 居中打印规范如下:

- 字体: Arial
- 字体样式: 常规
- 字体大小: 8
- 符号体系: code 128
- 尺寸: 0.3mm
- 高度: 5.0mm

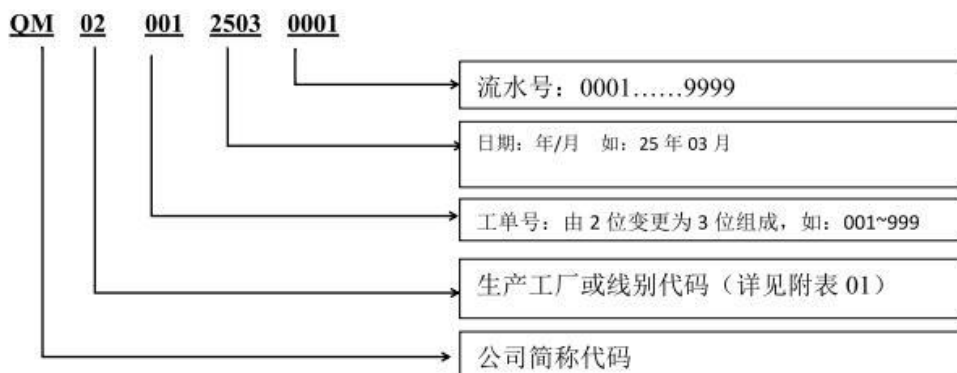
50*6mm 空白条码使用黑白打印, 居中打印规范如下:

- 字体: Arial
- 字体样式: 常规
- 字体大小: 5
- 符号体系: code 128
- 尺寸: 0.17mm
- 高度: 2.8mm

以上使用不同条码规格尺寸, 可根据所使用 BT 软件不同版本参数调整, 以数据仅供参考, 实际效果为准。

3.3 托盘码编码规则:

3.3.1 A 级组件托盘编码 (15 位):



Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

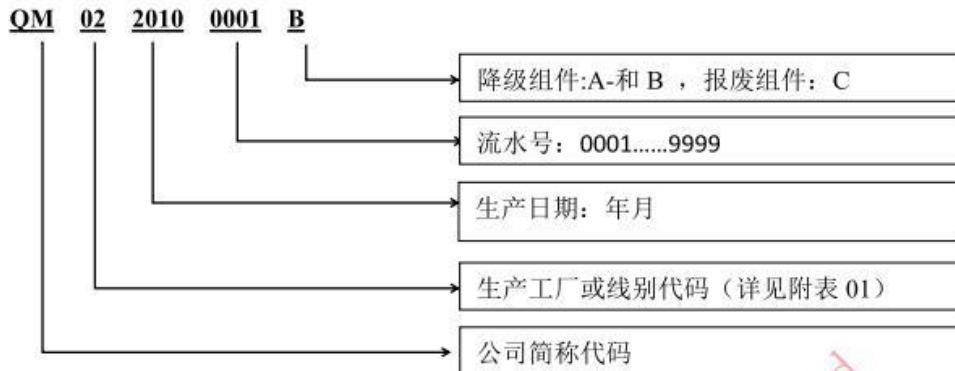
Seite 22 von 26
Page 22 of 26

Declaration

Solavita

组件编码规则

3.3.2 降级组件托盘编码:



3.4 唛头打印输出内容

唛头文件根据实际组件评级情况, 参考 SZQM-WSGY-123、SZQM-WSGY-124 打印

3.5 铭牌格式



深圳创维光伏 中文铭牌, 适用于国内订单

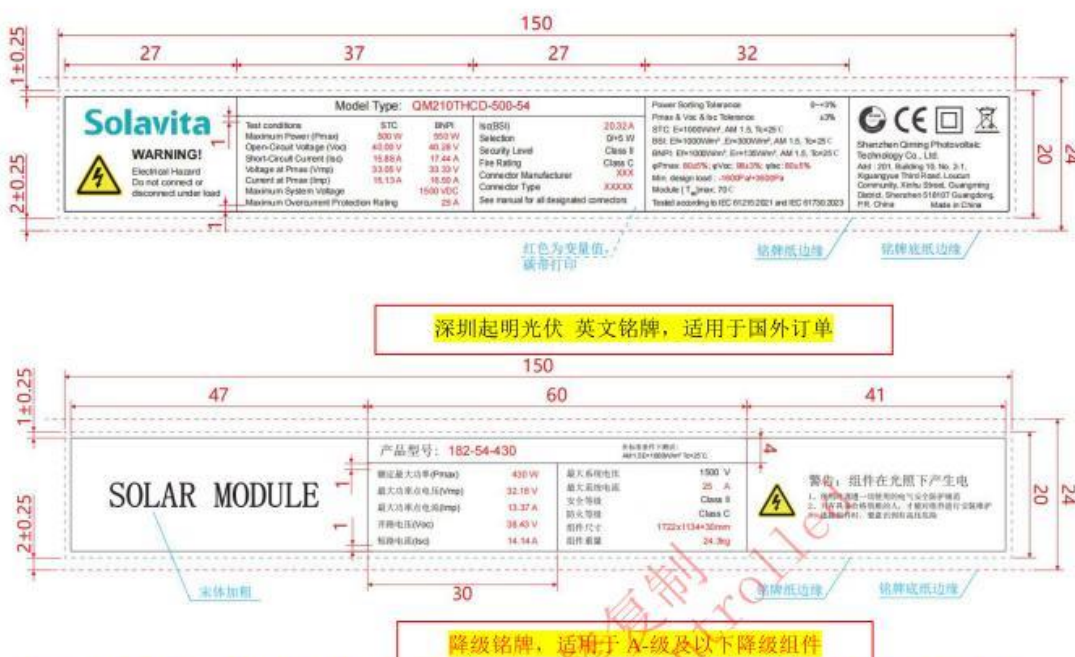


深圳创维光伏 英文铭牌, 适用于国外订单

Declaration

Solavita

组件编码规则



注：铭牌参数按对应组件型号电性能参数为准，另额定最大功率为标称功率，非实测功率，如：组件型号为 OM182THCD430-54，额定最大功率则为 430W。

4. 附件

4.1 附表1 生产工厂代码表

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 24 von 26
Page 24 of 26

Declaration

Solavita

组件编码规则

附表 1 生产工厂代码表

车间	代码	备注
滁州工厂	00	本部工厂用数字表示
深圳起明工厂	01	本部工厂用数字表示
百色工厂	02	本部工厂用数字表示
东磁	AA	外部工厂用字母表示
安徽赛拉弗	AB	外部工厂用字母表示
盐城悦阳光伏（锦州阳光）	AC	外部工厂用字母表示
高景	AD	外部工厂用字母表示
南玻	AE	外部工厂用字母表示
中南光电	AF	外部工厂用字母表示
协鑫	AG	外部工厂用字母表示
晶澳	AH	外部工厂用字母表示
神舟	AI	外部工厂用字母表示
超隆	AJ	外部工厂用字母表示
国晟淮北	AK	外部工厂用字母表示
弘元光能	AL	外部工厂用字母表示
旭合	AM	外部工厂用字母表示
华耀	AN	外部工厂用字母表示
欧达	AO	外部工厂用字母表示
中环低碳	AP	外部工厂用字母表示
海泰	AQ	外部工厂用字母表示
爱旭	AR	外部工厂用字母表示
中润	AS	外部工厂用字母表示

备注：生产工厂代码表由 PMC 部提供，研发部更新文件。

4.2 附表 2 组件类型对照表

附表 02：组件类型对照表

1、0 为电池片类型 1 位（例如：P:代表 PERC 电池、H:代表 HJT 电池、T: 代表 TOPcon 电池、A: 代表 ABC 电池）

2、1 代表整片电池片数量，（1 位）

数量	78	72	66	60	55	54	50	48	36	其他	其它
代码	A	B	C	D	E	F	G	H	J	...	Z

3、23 表示边框和背板/背玻颜色

边框	黑色	银白色	彩色	复合边框	
	B	S	C	F	
背板/背玻	白色/白网格玻璃	黑色/黑网格玻璃	透明背板/背玻	彩色背板/彩色背玻	间隙贴膜
	W	B	T	C	J

4、4 代表组件单双玻，单玻用 S 双玻用 D 表示。

Anlage 2 zum Prüfbericht-Nr.: CN23JWNO 030
APPENDIX 2 to Test report no.:

Seite 25 von 26
Page 25 of 26

Declaration

Zhejiang Aiko Solar Technology Co., Ltd.

Address:

No.655, Haopai Road, Suxi Town, Yiwu
322009 Zhejiang, P.R.China

Tel: 13916035894

Shenzhen Qiming Photovoltaic
Technology Co., Ltd.

Address:

201, Building 10, No. 2-1, Xiguangyue
Third Road, Loucun Community, Xinhua
Street, Guangming District, Shenzhen
518107 Guangdong, P.R.China
Tel: +86 17764404810

Declaration

We, **Zhejiang Aiko Solar Technology Co., Ltd.** and **Shenzhen Qiming Photovoltaic Technology Co., Ltd.** hereby declare that for the Co-License that is to be issued for **Shenzhen Qiming Photovoltaic Technology Co., Ltd.** based on main license no. PV 50614584, certified modules will exclusively be produced by Zhejiang Aiko Solar Technology Co., Ltd.at factory:

Guangdong Aiko Solar Technology Co., Ltd.

No.3, South Qili Avenue,Leping town,Sanshui District,Foshan,528137, Guangdong, P.R.China

Zhuhai Fushan Aiko Solar Technology Co., Ltd.

No.681, Fuguo Road, Doumen District, Zhuhai 519175 Guangdong, P.R.China

Zhejiang Aiko Solar Technology Co., Ltd.

No.888, Longqi Road, Suxi Town, Yiwu 322009 Zhejiang, P.R.China

Shandong Aiko Solar Technology Co., Ltd.

No.168, Zhongxing Avenue, Sungeng Street, Start-up District, Jinan 250000 Shandong, P.R.China

Main License Holder

Zhejiang Aiko Solar Technology Co., Ltd.

Co-License Holder

Shenzhen Qiming Photovoltaic
Technology Co., Ltd.

Company stamp/signature of Main License
holder

Date: 24/11/2025

Company stamp/signature of Co-license
holder

Date: 24/11/2025

Declaration

Company: Shenzhen Qiming Photovoltaic Technology Co., Ltd.
(Name and address of License Holder = Contractual Partner of TRLP)

Address: 201, Building 10, No. 2-1, Xiguangyue Third Road, Loucun Community, Xinhui Street, Guangming District, Shenzhen 518107 Guangdong, P.R.China

To
TÜV Rheinland LGA Products GmbH

D-90431 Nürnberg
GERMANY

Declaration

We acknowledge the products marked with the following brand (trade mark or name signature) as our products:

Sketch of original trade mark or name signature:

(Here goes a copy of the rating plate – rating label which is intended to be placed on the product. It should at least contain the product type designation and name of the manufacturer or his trade name or his registered company logo. If the space is not sufficient, please use extra page(s). Please observe:
All type designations and/or trade names not explicitly listed on valid certificates are considered not to be covered under the certificate.)

Solavita WARNING! Electrical Hazard Do not connect or disconnect under load		Model: XXX <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Test conditions</td> <td style="width: 25%;">STC</td> <td style="width: 25%;">SMF</td> <td style="width: 25%;">Wp</td> </tr> <tr> <td>Maximum Power (Pmax)</td> <td>300 W</td> <td>300 W</td> <td>Class A</td> </tr> <tr> <td>Open-Circuit Voltage (Voc)</td> <td>40.4 V</td> <td>40.4 V</td> <td>Free Rating</td> </tr> <tr> <td>Short-Circuit Current (Isc)</td> <td>8.6 A</td> <td>8.6 A</td> <td>Connector Manufacture</td> </tr> <tr> <td>Voltage at Power (Vmp)</td> <td>33.4 V</td> <td>33.4 V</td> <td>Connector Type</td> </tr> <tr> <td>Current at Power (Imp)</td> <td>9.0 A</td> <td>9.0 A</td> <td>Power Rating Tolerance</td> </tr> <tr> <td>Maximum System Voltage</td> <td>1500 VDC</td> <td>1500 VDC</td> <td>Power & Voc & Isc Tolerance</td> </tr> <tr> <td>Maximum Overcurrent Protection Rating</td> <td>30 A</td> <td>30 A</td> <td>See manual for all designated connectors</td> </tr> </table>		Test conditions	STC	SMF	Wp	Maximum Power (Pmax)	300 W	300 W	Class A	Open-Circuit Voltage (Voc)	40.4 V	40.4 V	Free Rating	Short-Circuit Current (Isc)	8.6 A	8.6 A	Connector Manufacture	Voltage at Power (Vmp)	33.4 V	33.4 V	Connector Type	Current at Power (Imp)	9.0 A	9.0 A	Power Rating Tolerance	Maximum System Voltage	1500 VDC	1500 VDC	Power & Voc & Isc Tolerance	Maximum Overcurrent Protection Rating	30 A	30 A	See manual for all designated connectors	Shenzhen Gining Photovoltaic Technology Co., Ltd A01 201 Building 15 No. 2-1 Xixiangqiang Third Road, Louxin Community, Xixiang Street, Guangming District, Shenzhen 518107 Guangdong P.R. China Made in China	
Test conditions	STC	SMF	Wp																																		
Maximum Power (Pmax)	300 W	300 W	Class A																																		
Open-Circuit Voltage (Voc)	40.4 V	40.4 V	Free Rating																																		
Short-Circuit Current (Isc)	8.6 A	8.6 A	Connector Manufacture																																		
Voltage at Power (Vmp)	33.4 V	33.4 V	Connector Type																																		
Current at Power (Imp)	9.0 A	9.0 A	Power Rating Tolerance																																		
Maximum System Voltage	1500 VDC	1500 VDC	Power & Voc & Isc Tolerance																																		
Maximum Overcurrent Protection Rating	30 A	30 A	See manual for all designated connectors																																		
SKYWORTH WARNING! Electrical Hazard Do not connect or disconnect under load		Model: XXX <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Test Conditions</td> <td style="width: 25%;">STC</td> <td style="width: 25%;">SMF</td> <td style="width: 25%;">Wp</td> </tr> <tr> <td>Maximum Power (Pmax)</td> <td>300 W</td> <td>300 W</td> <td>Class A</td> </tr> <tr> <td>Open-Circuit Voltage (Voc)</td> <td>40.4 V</td> <td>40.4 V</td> <td>Free Rating</td> </tr> <tr> <td>Short-Circuit Current (Isc)</td> <td>8.6 A</td> <td>8.6 A</td> <td>Connector Manufacture</td> </tr> <tr> <td>Voltage at Power (Vmp)</td> <td>33.4 V</td> <td>33.4 V</td> <td>Connector Type</td> </tr> <tr> <td>Current at Power (Imp)</td> <td>9.0 A</td> <td>9.0 A</td> <td>Power Rating Tolerance</td> </tr> <tr> <td>Maximum System Voltage</td> <td>1500 VDC</td> <td>1500 VDC</td> <td>Power & Voc & Isc Tolerance</td> </tr> <tr> <td>Maximum Overcurrent Protection Rating</td> <td>30 A</td> <td>30 A</td> <td>See manual for all designated connectors</td> </tr> </table>		Test Conditions	STC	SMF	Wp	Maximum Power (Pmax)	300 W	300 W	Class A	Open-Circuit Voltage (Voc)	40.4 V	40.4 V	Free Rating	Short-Circuit Current (Isc)	8.6 A	8.6 A	Connector Manufacture	Voltage at Power (Vmp)	33.4 V	33.4 V	Connector Type	Current at Power (Imp)	9.0 A	9.0 A	Power Rating Tolerance	Maximum System Voltage	1500 VDC	1500 VDC	Power & Voc & Isc Tolerance	Maximum Overcurrent Protection Rating	30 A	30 A	See manual for all designated connectors	Shenzhen Gining Photovoltaic Technology Co., Ltd A01 201 Building 15 No. 2-1 Xixiangqiang Third Road, Louxin Community, Xixiang Street, Guangming District, Shenzhen 518107 Guangdong P.R. China Made in China	
Test Conditions	STC	SMF	Wp																																		
Maximum Power (Pmax)	300 W	300 W	Class A																																		
Open-Circuit Voltage (Voc)	40.4 V	40.4 V	Free Rating																																		
Short-Circuit Current (Isc)	8.6 A	8.6 A	Connector Manufacture																																		
Voltage at Power (Vmp)	33.4 V	33.4 V	Connector Type																																		
Current at Power (Imp)	9.0 A	9.0 A	Power Rating Tolerance																																		
Maximum System Voltage	1500 VDC	1500 VDC	Power & Voc & Isc Tolerance																																		
Maximum Overcurrent Protection Rating	30 A	30 A	See manual for all designated connectors																																		

We declared that the rating label's material is the same as those pasted on samples.

Solavita WARNING! Electrical Hazard Do not connect or disconnect under load		Model: QM210AHCD-775-78 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Test conditions</td> <td style="width: 25%;">STC</td> <td style="width: 25%;">SMF</td> <td style="width: 25%;">Wp</td> </tr> <tr> <td>Maximum Power (Pmax)</td> <td>775 W</td> <td>800 W</td> <td>Class A</td> </tr> <tr> <td>Open-Circuit Voltage (Voc)</td> <td>58.82 V</td> <td>58.82 V</td> <td>Free Rating</td> </tr> <tr> <td>Voltage at Power (Vmp)</td> <td>48.97 V</td> <td>48.97 V</td> <td>Connector Manufacture</td> </tr> <tr> <td>Current at Power (Imp)</td> <td>15.86 A</td> <td>17.28 A</td> <td>Connector Type</td> </tr> <tr> <td>Maximum System Voltage</td> <td>1500 VDC</td> <td>1500 VDC</td> <td>Power Rating Tolerance</td> </tr> <tr> <td>Maximum Overcurrent Protection Rating</td> <td>30 A</td> <td>30 A</td> <td>Power & Voc & Isc Tolerance</td> </tr> </table>		Test conditions	STC	SMF	Wp	Maximum Power (Pmax)	775 W	800 W	Class A	Open-Circuit Voltage (Voc)	58.82 V	58.82 V	Free Rating	Voltage at Power (Vmp)	48.97 V	48.97 V	Connector Manufacture	Current at Power (Imp)	15.86 A	17.28 A	Connector Type	Maximum System Voltage	1500 VDC	1500 VDC	Power Rating Tolerance	Maximum Overcurrent Protection Rating	30 A	30 A	Power & Voc & Isc Tolerance	Shenzhen Gining Photovoltaic Technology Co., Ltd A01 201 Building 15 No. 2-1 Xixiangqiang Third Road, Louxin Community, Xixiang Street, Guangming District, Shenzhen 518107 Guangdong P.R. China Made in China	
Test conditions	STC	SMF	Wp																														
Maximum Power (Pmax)	775 W	800 W	Class A																														
Open-Circuit Voltage (Voc)	58.82 V	58.82 V	Free Rating																														
Voltage at Power (Vmp)	48.97 V	48.97 V	Connector Manufacture																														
Current at Power (Imp)	15.86 A	17.28 A	Connector Type																														
Maximum System Voltage	1500 VDC	1500 VDC	Power Rating Tolerance																														
Maximum Overcurrent Protection Rating	30 A	30 A	Power & Voc & Isc Tolerance																														
SKYWORTH WARNING! Electrical Hazard Do not connect or disconnect under load		Model: QM210AHCD-775-78 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Test Conditions</td> <td style="width: 25%;">STC</td> <td style="width: 25%;">SMF</td> <td style="width: 25%;">Wp</td> </tr> <tr> <td>Maximum Power (Pmax)</td> <td>775 W</td> <td>800 W</td> <td>Class A</td> </tr> <tr> <td>Open-Circuit Voltage (Voc)</td> <td>58.82 V</td> <td>58.82 V</td> <td>Free Rating</td> </tr> <tr> <td>Voltage at Power (Vmp)</td> <td>48.97 V</td> <td>48.97 V</td> <td>Connector Manufacture</td> </tr> <tr> <td>Current at Power (Imp)</td> <td>15.86 A</td> <td>17.28 A</td> <td>Connector Type</td> </tr> <tr> <td>Maximum System Voltage</td> <td>1500 VDC</td> <td>1500 VDC</td> <td>Power Rating Tolerance</td> </tr> <tr> <td>Maximum Overcurrent Protection Rating</td> <td>30 A</td> <td>30 A</td> <td>Power & Voc & Isc Tolerance</td> </tr> </table>		Test Conditions	STC	SMF	Wp	Maximum Power (Pmax)	775 W	800 W	Class A	Open-Circuit Voltage (Voc)	58.82 V	58.82 V	Free Rating	Voltage at Power (Vmp)	48.97 V	48.97 V	Connector Manufacture	Current at Power (Imp)	15.86 A	17.28 A	Connector Type	Maximum System Voltage	1500 VDC	1500 VDC	Power Rating Tolerance	Maximum Overcurrent Protection Rating	30 A	30 A	Power & Voc & Isc Tolerance	Shenzhen Gining Photovoltaic Technology Co., Ltd A01 201 Building 15 No. 2-1 Xixiangqiang Third Road, Louxin Community, Xixiang Street, Guangming District, Shenzhen 518107 Guangdong P.R. China Made in China	
Test Conditions	STC	SMF	Wp																														
Maximum Power (Pmax)	775 W	800 W	Class A																														
Open-Circuit Voltage (Voc)	58.82 V	58.82 V	Free Rating																														
Voltage at Power (Vmp)	48.97 V	48.97 V	Connector Manufacture																														
Current at Power (Imp)	15.86 A	17.28 A	Connector Type																														
Maximum System Voltage	1500 VDC	1500 VDC	Power Rating Tolerance																														
Maximum Overcurrent Protection Rating	30 A	30 A	Power & Voc & Isc Tolerance																														

Shenzhen, 24/11/2025

Place. Date

Rev: 2010-01-13

Company seal and legally binding signature