

# CERTIFICATE

## of Conformity

### Low Voltage Directive (EU) 2014/35

**Registration No.:** AN 50670941 0001  
**Report No.:** CN22I3AF 002  
**Holder:** GoodWe Technologies Co., Ltd.  
No.90 Zijin Rd., New District  
215011 Suzhou  
P.R. China  
**Product:** Solar collectors  
*(Single Phase Energy Meter),(Three Phase Energy Meter)*

#### Type designation listed on the next page

This certificate of conformity is based on an evaluation of a sample of the above-mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive (EU) 2014/35, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

#### Certification Body

**Date:** 2025-04-14

  
Bowen Dong



**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**

The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with.

# CERTIFICATE

of Conformity  
Low Voltage Directive (EU) 2014/35

**Registration No.:** AN 50670941 0001

**Product:** Solar collectors  
(Single Phase Energy Meter),(Three Phase Energy Meter)

**Identification:** Type Designation  
GMK120 , GMK330 , GMK360

Serial No.: Engineering Samples

Remark(s) : Issued in conjunction with TÜV Rheinland  
license R 50560797 0002.



**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg**

The CE marking may be used if all relevant and effective EC Directives/Regulations are complied with.

<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>CN22I3AF 002</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	<b>326067456</b>	Seite 1 von 22 Page 1 of 22
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	2028101	<b>Auftragsdatum:</b> <i>Order date:</i>	2024-12-09	
<b>Auftraggeber:</b> <i>Client:</i>	GoodWe Technologies Co., Ltd. No.90 Zijin Rd., New District, Suzhou, 215011, P.R. China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Single Phase Energy Meter, Three Phase Energy Meter			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	GMK120, GMK330, GMK360			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	TÜV Mark approval			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	IEC 61010-1:2010+A1 EN 61010-1:2010+A1+AC			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2024-12-09			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	A003966857-001			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2024-12-09 to 2024-12-30			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	See page 5			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von:</b> tested by: Ghosta Huang	<i>Ghosta Huang</i>	<b>genehmigt von:</b> authorized by: David Zhou	<i>David Zhou</i>	
<b>Datum:</b> Date: 2025-04-01		<b>Ausstellungsdatum:</b> Issue date: 2025-04-01		
<b>Stellung / Position:</b>	Sachverständige(r)/Expert	<b>Stellung / Position:</b>	Sachverständige(r)/Expert	
<b>Sonstiges /</b> <i>Other:</i>	This report is based on the original report CN22I3AF 001. 1. Modified the supply rated voltage from 230 VAC to voltage range 90~264VAC. 2. Added a type of CT. See below pages for detail.			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* 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
<p><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></p>				

Prüfbericht-Nr.: CN2213AF 002  
Test report no.:

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Page 2 of 22

**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.<br/>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: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></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: <a href="http://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.<br/>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.<br/>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 115:2021, 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>   |



**TEST REPORT  
IEC 61010-1  
Safety requirements for electrical equipment for measurement,  
control, and laboratory use  
Part 1: General requirements**

**Report Number.** ..... : CN22I3AF 002  
**Date of issue** ..... : See cover page  
**Total number of pages** ..... : 22

**Name of Testing Laboratory preparing the Report** ..... : See cover page

**Applicant's name** ..... : See cover page  
**Address** ..... : See cover page

**Test specification:**  
**Standard** ..... : IEC 61010-1:2010+A1, EN 61010-1:2010+A1+AC  
**Test procedure**..... : See cover page  
**Non-standard test method**..... : N/A

**TRF template used** ..... : IECEE OD-2020-F1:2020, Ed.1.3  
**Test Report Form No.**..... : IEC61010\_1P  
**Test Report Form(s) Originator**.... : VDE Prüf- und Zertifizierungsinstitut GmbH  
**Master TRF** ..... : 2021-04-12

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**This report is not valid as a CB Test Report unless signed by an approved IECEE Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

<b>Test item description</b> .....	Single Phase Energy Meter, Three Phase Energy Meter
<b>Trade Mark</b> .....	<b>GOODWE</b>
<b>Manufacturer</b> .....	Goodwe Technologies Co., Ltd.
<b>Model/Type reference</b> .....	GMK120, GMK330, GMK360
<b>Ratings</b> .....	GMK120: 90~264Vac; 50/60Hz; GMK330, GMK360:Voltage range: 1P+N and 3P+N: 90~264Vac, 50/60Hz; CT in: 200A/50mA, 120A:40mA, 5W

<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s): N/A</b>	
<input type="checkbox"/> <b>CB Testing Laboratory:</b>	
Testing location/ address .....	
Tested by (name, function, signature).....	
Approved by (name, function, signature) ..	
<b>Testing procedure: CTF Stage 1:</b>	
Testing location/ address .....	
Tested by (name, function, signature).....	
Approved by (name, function, signature) ..	
<b>Testing procedure: CTF Stage 2:</b>	
Testing location/ address .....	
Tested by (name + signature).....	
Witnessed by (name, function, signature) .	
Approved by (name, function, signature) ..	
<b>Testing procedure: CTF Stage 3:</b>	
<b>Testing procedure: CTF Stage 4:</b>	
Testing location/ address .....	
Tested by (name, function, signature).....	
Witnessed by (name, function, signature) .	
Approved by (name, function, signature) ..	
Supervised by (name, function, signature) :	

**List of Attachments (including a total number of pages in each attachment):**

ATTACHMENT 1 - PHOTO DOCUMENTATION (19 pages)

**Summary of testing:**

**Tests performed (name of test and test clause):**

Clause(s)	Test(s)
5.1.3 c)	MAINS supply
5.3	Durability of markings
6.8	Dielectric strength tests

**Testing location:**

TÜV Rheinland (Shanghai) Co.,Ltd.  
No. 177, Lane 777, West Guangzhong Road,  
Jing'an District, Shanghai 200072, P. R. China

<b>Test Report History:</b>		
This report may consist of more than one report and is only valid with additional or previous issued reports:		
Report Ref. No.	Item	
Test Report No.	Date dd.mm.yyyy	Remark(s)
CN2213AF 001		Original report of IEC 61010-1:2010+A1, EN 61010-1:2010+A1+AC
CN2213AF 002	28.02.2025	2. Added a type of CT
<b>Summary of compliance with National Differences (List of countries addressed):</b>		
N/A		
<input checked="" type="checkbox"/> <b>The product fulfils the requirements of __ IEC 61010-1:2010+A1, _EN 61010-1:2010+A1+AC_____</b>		
<b>Statement concerning the uncertainty of the measurement systems used for the tests</b>		
(may be required by the product standard or client)		
<input type="checkbox"/> <b>Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:</b>		
<b>Procedure number, issue date and title:</b>		
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.		
<input checked="" type="checkbox"/> <b>Statement not required by the standard used for type testing</b>		
<small>(Note: When IEC or ISO standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above. The informative text in parenthesis should be delete in both cases after selecting the applicable option)</small>		

**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

**Three Phase Energy Meter**  
Model: GMK360  
L-N: 90~264Vac, 50/60Hz, 5W MAX,  
CT in:200A:50mA/120A:40mA  
GoodWe Technologies Co., Ltd.  
No.90 Zijin Rd., New District, Suzhou, 215011, China  
Importer: GoodWe Europe GmbH (Only For Europe)  
Kistlerhof Str. 170, 81379 Munich, Germany

**Two Phase Energy Meter**  
Model: GMK120  
L-N:90-264Vac, 0.5 Accuracy Class, 50/60Hz  
5W MAX, CT in:200A:50mA/120A:40mA  
GoodWe Technologies Co., Ltd.  
No.90 Zijin Rd., New District, Suzhou, 215011, China  
Importer: GoodWe Europe GmbH (Only For Europe)  
Kistlerhof Str. 170, 81379 Munich, Germany

**Three Phase Energy Meter**  
Model: GMK330  
L-N: 90~264Vac, 50/60Hz, 5W MAX,  
CT in:200A:50mA/120A:40mA  
GoodWe Technologies Co., Ltd.  
No.90 Zijin Rd., New District, Suzhou, 215011, China  
Importer: GoodWe Europe GmbH (Only For Europe)  
Kistlerhof Str. 170, 81379 Munich, Germany

<b>Test item particulars:</b>	
<b>Type of item</b> .....	Measurement
<b>Description of equipment function</b> .....	Calculate the element and energy in solar and hybrid systems
<b>Connection to MAINS supply</b> .....	Permanent
<b>Overvoltage category</b> .....	III
<b>POLLUTION DEGREE</b> .....	3 (Installed in waterproof box)
<b>Means of protection</b> .....	Class II
<b>Environmental conditions</b> .....	Extended (Specify): -30 ~ +70°C
<b>For use in wet locations</b> .....	No
<b>Equipment mobility</b> .....	Fixed
<b>Operating conditions</b> .....	Continuous
<b>Overall size of equipment (W x D x H)</b> .....	85 x 72 x 72mm
<b>Mass of equipment (kg)</b> .....	0.24
<b>Marked degree of protection to IEC 60529</b> .....	IP20
<b>Possible test case verdicts:</b>	
- Test case does not apply to the test object .....	N/A (Not Applicable)
- Test object does meet the requirement.....	P (Pass)
- Test object does not meet the requirement .....	F (Fail)
<b>Testing:</b>	
<b>Date of receipt of test item</b> .....	See cover page
<b>Date (s) of performance of tests</b> .....	See cover page
<b>General remarks:</b>	
The test results 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 Form A.xx)" refers to a Table appended to the report. Bottom lines for measurement Tables Forms A.xx are optional if used as record.	
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:</b>	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....	<input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>Not applicable</b>
<b>When differences exist; they shall be identified in the general product information section.</b>	
<b>Name and address of factory (ies)</b> .....	GoodWe Technologies Co., Ltd. No.90 ZiJin Rd., New District, Suzhou, 215011, China

**General product information and other remarks:**
Description of change:

1. Modified the supply rated voltage from 230VAC to voltage range 90~264VAC.
2. Added a type of CT. The variable ratio specification: 120A: 40mA

For the above described change(s) the test were considered to be necessary:

Change	Testing	Comments
1	MAINS supply	See clause 5.1.3
2	The a.c. voltage test	See clause 6.8

**Description of model differences:**

The models GMK120, GMK330, GMK360 are same as the construction, hardware and software and the differences below table:

Model list:

No.	Model	Voltage (V)	Power (A)	Frequency	Metering chip No.	CT No.
1	GMK120	1P+N: 90-264Vac	5	50/60Hz	1	1
2	GMK330	3P+N: 90-264Vac	5	50/60Hz	1	3
3	GMK360	3P+N: 90-264Vac	5	50/60Hz	2	6

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
<b>5</b>	<b>MARKING AND DOCUMENTATION</b>		P
<b>5.1</b>	<b>Marking</b>		P
5.1.1	General		P
	Required equipment markings		—
	– Visible from the exterior; or		P
	– Visible after removing cover or opening door		N/A
	– Visible after removal from a rack or panel		N/A
	Not put on parts which can be removed by an operator		P
	Letter symbols (IEC 60027) used		P
	Graphic symbols of Table 1 used		P
5.1.2	Identification		P
	Equipment is identified by:		—
	a) Manufacturer's or supplier's name or trademark	Goodwe	P
	b) Model number, name or other means	GMK120,GMK330,GMK360	P
	Manufacturing location identified	See the user manual	P
5.1.3	MAINS supply		P
	Equipment is marked as follows:		—
	a) Nature of supply:		—
	1) a.c. RATED MAINS frequency or range of frequencies .....	50Hz/60Hz	—
	2) d.c. with symbol 1 .....	No d.c.	—
	b) RATED supply voltage(s) or range .....	Voltage range: 1P+N:90-264Vac 3P+N: 90-264Vac	—
	c) Max. RATED power (W or VA) or input current .....	5W	—
	The marked value not less than 90 % of the maximum value	(see Form A.2)	P
	If more than one voltage range:		—
	Separate values marked; or		N/A
	Values differ by less than 20 %	(see Form A.2)	N/A
	d) OPERATOR-set for different RATED supply voltages:		—
	Indicates the equipment set voltage		N/A
	PORTABLE EQUIPMENT indication is visible from the exterior		N/A
	Changing the setting changes the indication		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	e) Accessory MAINS socket-outlets accepting standard MAINS plugs are marked:		—
	With the voltage if it is different from the MAINS supply voltage.....:		—
	For use only with specific equipment		N/A
	If not marked for specific equipment it is marked with:		—
	The maximum RATED current or power; or		N/A
	Symbol 14 with full details in the documentation		N/A
5.1.4	Fuses		N/A
	OPERATOR replaceable fuse marking (see also 5.4.5).....:		—
5.1.5	TERMINALS, connections and operating devices		P
5.1.5.1	General		P
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked		P
	If insufficient space, symbol 14 used		P
	Push-buttons and actuators of emergency stop devices and indicators:		—
	– used only to indicate a warning of danger; or		N/A
	– the need for urgent action		N/A
	– coloured red		N/A
	– coded as specified in IEC 60073		N/A
	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):		—
	– to safety of persons; or		N/A
	– safety of the environment		N/A
5.1.5.2	TERMINALS		—
	MAINS supply TERMINAL identified		P
	Other TERMINAL marking:		—
	a) FUNCTIONAL EARTH TERMINALS marked with symbol 5		N/A
	b) PROTECTIVE CONDUCTOR TERMINALS:	Not used	—
	Symbol 6 is placed close to or on the TERMINAL; or		N/A
	Part of appliance inlet		N/A
	c) TERMINALS of circuits (symbol 7 used)		N/A

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	d) HAZARDOUS LIVE TERMINALS supplied from the interior		N/A
	Standard MAINS socket outlet used; or		N/A
	RATINGS marked; or		N/A
	Symbol 14 used		N/A
5.1.6	Switches and circuit-breakers	Not used	N/A
	If disconnecting device, off position clearly marked		N/A
	If push-button used as power supply switch:		—
	– Symbol 9 and 15 used for on-position		N/A
	– Symbol 10 and 16 used for off-position		N/A
	– Pair of symbols 9, 15 and 10, 16 close together		N/A
5.1.7	Equipment protected by DOUBLE INSULATION or REINFORCED INSULATION	Class II	P
	Protected throughout (symbol 11 used)	See the nameplate	P
	Only partially protected (symbol 11 not used)		N/A
5.1.8	Field-wiring TERMINAL boxes		N/A
	If TERMINAL or ENCLOSURE exceeds 60 °C:	(see Form A.26A)	—
	Cable temperature RATING marked .....		—
	Marking visible before and during connection or beside TERMINAL		N/A
<b>5.2</b>	<b>Warning markings</b>		P
	Visible when ready for NORMAL USE		P
	Are near or on applicable parts		P
	Symbols and text correct dimensions and colour:		—
	a) Symbols min 2,75 mm and text 1,5 mm high and contrasting in colour with background		P
	b) Symbols and text moulded, stamped or engraved in material min. 2,0 mm high and		P
	0,5 mm depth or raised if not contrasting in colour		P
	If necessary marked with symbol 14, or		P
	Additional symbols such as symbol 12, 13 or 17 used to indicate the nature of HAZARD		N/A
	Statement to place equipment in a safe state before access by using a tool to HAZARDOUS parts is permitted		P
<b>5.3</b>	<b>Durability of markings</b>		P
	The required markings remain clear and legible in NORMAL USE	(see Form A.3)	P

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
<b>5.4</b>	<b>Documentation</b>		P
5.4.1	General		P
	Equipment is accompanied by documentation for safety purposes for OPERATOR or RESPONSIBLE BODY		P
	Safety documentation for service personnel authorized by the manufacturer		P
	Documentation necessary for safe operation is provided in printed media or		P
	in electronic media if available at any time		P
	Documentation includes:	See the manual	—
	a) Intended use		P
	b) Technical specification		P
	c) Name and address of manufacturer or supplier		P
	d) Information specified in 5.4.2 to 5.4.6		P
	e) Information to mitigate residual RISK (see also subclause 17)		N/A
	f) Accessories for safe operation of the equipment specified		N/A
	g) Guidance provided to check correct function of the equipment, if incorrect reading may cause a HAZARD from harmful or corrosive substances of HAZARDOUS live parts		P
	h) Instructions for lifting and carrying	Less 18Kg	N/A
	Warning statements and a clear explanation of warning symbols:		—
	– provided in the documentation; or		P
	– information is marked on the equipment		P
5.4.2	Equipment RATINGS		P
	Documentation includes:		—
	a) Supply voltage or voltage range.....:	1P+N:90-264VAC; 3P+N: 90-264VAC	—
	Frequency or frequency range .....	50Hz/60Hz	—
	Power or current rating.....:	5W	—
	b) Description of all input and output connections in accordance to 6.6.1 a)		P
	c) RATING of insulation of external circuits in accordance to 6.6.1 b)		N/A
	d) Statement of the range of environmental conditions (refer to 1.4):		—

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	1) indoor or outdoor use,	Outdoor with a waterproof cover	P
	2) altitude,	3000	P
	3) temperature,	-30 ~ +70°C	P
	4) relative humidity,	0-95%	P
	5) MAINS supply voltage fluctuations,		P
	6) OVERVOLTAGE CATEGORY,	III	P
	7) WET LOCATION, if applicable,		N/A
	8) POLLUTION DEGREE of the intended environment	PD 2	P
	e) Degree of ingress protection (IEC 60529)	IP20	P
	f) If impact rating less than 5 J:		—
	IK code in accordance to IEC 62262 marked; or		N/A
	symbol 14 of Table 1 marked, with		N/A
	RATED energy level and test method stated		N/A
5.4.3	Equipment installation		P
	Documentation includes instructions for:		—
	a) Assembly, location and mounting requirements		P
	b) Instructions for protective earthing		N/A
	c) Connections to supply		P
	d) PERMANENTLY CONNECTED EQUIPMENT:		—
	1) Supply wiring requirements		P
	2) If external switch or circuit-breaker, requirements and location recommendation		N/A
	e) Ventilation requirements		N/A
	f) Safety characteristics for special external services (e. g. maximum and minimum temperature, pressure, flow of air, cooling liquid)		P
	g) Instructions relating to sound level		N/A
5.4.4	Equipment operation		P
	Instructions for use include:		—
	a) Identification and description of operating controls		N/A
	b) Positioning for disconnection		N/A
	c) Instructions for interconnection to accessories or other equipment		N/A
	d) Specification of intermittent operation limits		N/A
	e) Explanation of symbols used		P

IEC 61010-1			
Clause	Requirement + Test	Result - Remark	Verdict
	f) Replacement of consumable materials		N/A
	g) Cleaning and decontamination		N/A
	h) Listing of any poisonous or injurious gases and quantities		N/A
	i) RISK reduction procedures relating to flammable liquids (see 9.5 c)		N/A
	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1		P
	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids		N/A
	A statement about protection impairment if used in a manner not specified by the manufacturer		P
5.4.5	Equipment maintenance and service		N/A
	Instructions for RESPONSIBLE BODY include:		—
	Instructions sufficient in detail permitting safe maintenance and inspection and continued safety:		—
	Instruction against the use of detachable MAINS supply cord with inadequate RATING		N/A
	Specific battery type of user replaceable batteries		N/A
	Any manufacturer specified parts		N/A
	RATING and characteristics of fuses		N/A
	Instructions include following subjects permitting safe servicing and continued safety:		—
	a) Product specific RISKS may affect service personnel		N/A
	b) Protective measures for these RISKS		N/A
	c) Verification of the safe state after repair		N/A
5.4.6	Integration into systems or effects resulting from special conditions		P
	Aspects described in documentation		P
<b>6.8</b>	<b>Procedure for voltage tests</b>	(see Forms A.14 and A.18)	P

EC 61010-1							
Clause	Requirement — Test			Result — Remark		Verdict	
<b>5.1.3c)</b>	<b>TABLE: MAINS supply</b>					<b>Form A.2</b>	
	Marked rating .....	230/3x230		V		—	
	Phase .....					—	
	Frequency .....	50/60		Hz		—	
	Current .....	A				—	
	Power .....	5		W		—	
	Power .....	VA				—	
Test No.	Voltage [V]	Frequency [Hz]	Current [A]	Power		Comments	
				[W]	[VA]		
1	90	50	0.012	0.37	1.07	Working as normal for GMK360	
2	90	60	0.012	0.36	1.11	Working as normal for GMK360	
3	264	50	0.018	0.54	4.84	Working as normal for GMK360	
4	264	60	0.022	0.55	5.60	Working as normal for GMK360	
NOTE – Measurements are only required for marked ratings. Initial inrush currents are not regarded.							
Supplementary information:							

IEC 61010-1					
Clause	Requirement — Test			Result — Remark	Verdict
<b>5.3</b>	<b>TABLE: Durability of markings</b>			<b>Form A.3</b>	<b>P</b>
Marking method (see NOTE)			Agent		
1) Adhesive label			A Water		
2) Ink printed			B Isopropyl alcohol 70%		
3) Laser marked			C (specify agent)		
4) Film-coated (plastic foil control panel)			D (specify agent)		
5) Imprinted on plastic (moulded in)			E (specify agent)		
NOTE – Where applicable include print method, label material, ink or paint type, fixing method, adhesive and surface to which marking is fixed.					
Marking location			Marking method (see above)		
Identification (5.1.2)			1)		
MAINS supply (5.1.3)			1)		
Fuses (5.1.4)			N/A		
Terminals and operating devices (5.1.5.2)					
Switches and circuit breakers (5.1.6)			N/A		
Double/reinforced equipment (5.1.7)					
Field wiring Terminal boxes (5.1.8)			N/A		
Warning marking (5.2)			1)2)		
Battery charging (13.2.2)			N/A		
Method	Test agent	Remains legible	Label loose	Curled edges	Comments
		Verdict	Verdict	Verdict	
1)2)	A)B	P	N/A	N/A	
Supplementary information:					

IEC 61010-1						
Clause	Requirement — Test				Result — Remark	Verdict
<b>6.8</b>	<b>TABLE: Dielectric strength tests</b>				<b>Form A.18</b>	P
4.4.4.1 b)	Conformity after application of SINGLE FAULT CONDITIONS <sup>1</sup>					N/A
6.4	Primary means of protection <sup>2</sup>					P
6.6	Connections to external circuits					P
6.7	Insulation requirements <sup>2</sup> (see Annex K)					P
6.10.2	Fitting of non-detachable MAINS supply cords <sup>1</sup>					N/A
9.2 a) 2)	Eliminating or reducing the sources of ignition within the equipment					N/A
9.4 c)	Limited-energy circuit					N/A
9.6.1	Overcurrent protection basic insulation between MAINS - parts					N/A
	Test site altitude .....				0m	—
	Test voltage correction factor (see table 10) .....				1.14	—
Location or references from Forms A.1 and A.14	Clause or sub-clause	Humidity	Working voltage	Test voltage	Comments (NOTE)	Verdict
		Yes/No	[r.m.s./d.c.]	[r.m.s./peak/d.c.]		
Inputs to outputs and enclosure	6.8		264 r.m.s.	4100 r.m.s	1 min	P
<sup>1</sup> Record the fault, test or treatment applied before the dielectric strength test. <sup>2</sup> Humidity preconditioning required. NOTE: Test duration may be recorded.						
Supplementary information:						

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

TABLE 1.A: List of components and circuits relied on for safety						P
Unique component reference or location	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)	
CEMENT RESISTOR	Anhui Changsheng Electronics Co., Ltd	RXF21-2W	Rated power:0.5W Rated resistance: 0,1 Ω bis/to 200 Ω Cl and cr: 9,7 mm	DIN EN IEC 62368-1 (VDE 0868-1)	40024768	
Transformer	GoodWe Technologies Co., Ltd.	LF-GD1901	Temp: -40 ~ +130°C Withstand voltage: 3000Vac	IEC61010-1:2010	Test with appliance	
Varistor	BrightKing	511KD10	Rated voltage: 320Vac, Temp: -40~85°C	IEC 61051-1:2007 IEC 61051-2:1991/AMD1:2009	40027827	
Onboard PT	Qingxian Zeming Langxi Electronic Device Co., Ltd	ZMPT107-2	Temp : -40°C to 85°C, Withstand voltage: 4000V/min,2Ma/2Ma	IEC61010-1:2010	Test with appliance	
CT	Qingxian Zeming Langxi Electronic Device Co., Ltd	ZEMSCT-22A-1	Rated voltage :200A/50mA	IEC61010-1:2010	Test with appliance	
CT	Qingxian Zeming Langxi Electronic Device Co., Ltd	ZEMCTK04-14C	Rated voltage :120A/40mA Withstand Voltage :2.5KV/min	IEC61010-1:2010	Test with appliance	
CT	Namin Technology	EICT-120K-T210C	Rated voltage :120A/40mA Withstand Voltage :4KV2s	IEC61010-1:2010	Test with appliance	

IEC 61010-1					
Clause	Requirement — Test	Result — Remark			Verdict
<b>TABLE 1.A: List of components and circuits relied on for safety</b>					P
Unique component reference or location	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)
X capacity(C502, C505)	XIAMEN FARATRONIC CO.,LTD	C4B	Rated voltage: 350VAC Withstand voltage: 2200Vac, 1min Capacitance: 3.3uF Temp: -40°C~110°C	ENEC-SEMKO:EN 60384-14:2013+A1:2016	SE/0366-6B
Y capacity (C500, C514)	WALSIN TECHNOLOGY CORP	AH	Rated voltage:400Vac, Tolerance of rated capacitance: 4.7nF, -40~125°C	DIN EN 60384-14/A1 (VDE 0565-1-1/A1)	VDE40001804
Tape of Transformer	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PF	CTI : Group III Temp: 180°C	UL 510A	E165111
Tape of Transformer	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	WF	CTI : Group I Temp: 130°C	UL510A	E165111
Bobbin of transformer	CHANG CHUN PLASTICS CO LTD	T375HF	Max Oper Temp: 150°C, Flame class: V-0	UL 94	E59481
Bobbin of transformer	CHANG CHUN PLASTICS CO LTD	PM-9630 PM-9820	Max Oper Temp: 150°C, Flame class: V-0	UL 94	E41429

IEC 61010-1						
Clause	Requirement — Test			Result — Remark	Verdict	
	<b>TABLE 1.A: List of components and circuits relied on for safety</b>					P
Unique component reference or location	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)	
Triple insulation wire	SHENZHEN KAIZHONG HEDONG NEW MATERIAL CO LTD	TIW-B	Max Oper Temp: 130°C	DIN EN 62368-1/A11 (VDE 0868-1/A11)	VDE40038861	
Triple insulation wire	SHENZHEN KAIZHONG HEDONG NEW MATERIAL CO LTD	TIW-F	Max Oper Temp: 155°C	DIN EN 62368-1/A11 (VDE 0868-1/A11)	VDE40038861	
Tube of Transformer	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-TT-L	Voltage Rating:150V; Temperature Rating:200 °C	UL 94	E180908	
Tube of Transformer	SHENZHEN WOER HEAT-SHRINKABLEMATERIAL CO LTD	WF (PTFE)	Voltage Rating:600V; Temperature Rating:200 °C	UL 94	E203950	
Varnish of Transformer	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	T4260 (a)	Twisted Pair Temp (°C):155 ANSI Type: MW 80-C	UL 510	E228349	
PCB	Vabael Electronic Technology Co., Ltd.	HT-M1	Max Oper Temp: 130°C, Flame class: V-0	UL 796 UL 94	E495184	
PCB	various	various	Max Oper Temp: 130°C, Flame class: V-0	UL 796 UL 94	UL	
Enclosure	Suzhou Wanrong Plastic Co., Ltd	FR3010+	Max Oper Temp: 85°C, Flame class: V-0	UL94	E41613	

IEC 61010-1			
Clause	Requirement — Test	Result — Remark	Verdict

TABLE 1.A: List of components and circuits relied on for safety						P
Unique component reference or location	Manufacturer / trademark (NOTE 1)	Type / model	Technical data (NOTE 2)	Standard	Mark(s) of conformity evidence of acceptance (NOTE 3 and 4)	
Connectors	SHENZHEN CONNECTIO ELECTRONIC CO LTD	P508H-00V-2P	Rated voltage:300V/20A, Flame class:V-0 Oper Temp: 105°C	UL 94	E304128	
Connectors	SHENZHEN CONNECTIO ELECTRONIC CO LTD	PLTBH2.5-07-S-5.08 K2,4,6	Rated voltage: 300V/10A, Flame class:V-0 Oper Temp: 105°C	UL94	E358951	
Optocoupler	VISHAY SEMICONDUCTOS	SFH615A-3X009	Operating temperature : -55°C ~100°C, Witstand voltage: 5300Vac	DIN EN 60747-5-5 (VDE 0884-5)	VDE091888	
Barley paper	Suzhou Splendid Technology Co.,Ltd.	KLX PP WT/BK-10	Flame class: V-0/ VTM-0 Min Thk mm: 0.25 Operating temperature : -40°C ~150°C,	UL94	E315185	
Chip	Suzhou Novosense Microelectronics CO LTD	NSI83085A-DSWR	Max. ambient temperature:150°C Surge Isolation voltage :6250Vpeak Max. output power dissipation:1.584W	DIN VDE V 0884-11:2017-01	VDE5024579	
NOTE → 1 List all different manufacturers of the above components						→ 4 asterisk indicates mark assuring agreed level of surveillance
→ 2 May include electrical, mechanical values						
→ 3 List licence no or method of acceptance						

GoodWe Technologies Co., Ltd.  
Yu Yongfeng

Date : 19.10.2022  
Our ref. : Huanggho 01  
Your ref.: Yu Yongfeng

No.90 Zijin Rd., New District  
215011 Suzhou  
P.R. China

**Ref : R TÜV-Mark Approval**

Type of Equipment : Single Phase Energy Meter), (Three Phase Energy Meter)

Model Designation : See Certificate

Certificate No. : R 50560797 0001

Report No. : CN22I3AF 001

Dear Yu Yongfeng,

The above specified equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

The certificate is issued with the reservation that the license holder applies all information required in § 6 of the ProdSG related to name and address of the manufacturer or his authorized representative / importer, including their respective contact addresses on the product prior to marketing of the product in the European Economic Area. In case you have a change regarding your involved local representative for the certificate, please inform us in due time.

With kind regards,

Certification Body



Weichun Li

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Zertifikat Nr. *Certificate No.*  
 R 50560797

 Blatt *Sheet*  
 0001

 Ihr Zeichen *Client Reference*  
 Yu Yongfeng

 Unser Zeichen *Our Reference*  
 01-Huanggho-CN22I3AF 001

 Ausstellungsdatum  
 19.10.2022

 Date of Issue  
 (day/mo/yr)

**Genehmigungsinhaber *License Holder***

 GoodWe Technologies Co., Ltd.  
 No.90 Zijin Rd., New District  
 215011 Suzhou  
 P.R. China

**Fertigungsstätte *Manufacturing Plant***

 GoodWe Technologies Co., Ltd.  
 No.90 Zijin Rd., New District  
 215011 Suzhou  
 P.R. China

**Prüfzeichen *Test Mark***

 Type Approved  
 Safety  
 Regular Production  
 Surveillance

 www.tuv.com  
 ID 1111260130

**Geprüft nach *Tested acc. to***

 EN 61010-1:2010+A1+AC  
 IEC 61010-1:2010+A1

**Zertifiziertes Produkt (Geräteidentifikation)  
 Certified Product (Product Identification)**
**Lizenzentgelte - Einheit  
 License Fee - Unit**

Solar collectors (Single Phase Energy Meter), (Three Phase Energy Meter)

Type Designation	: GMK120 , GMK330 , GMK360	12
Rated Input Voltage [Va.c.]	: 230V, 3x230/400V, 3x230/400V, 50/60Hz	
Max Input current	: 50mA (200A:50mA)	
Rated Input Power	: 5W	
Protective Class	: Class II	
Degree of Protection	: IP20	
Operating Temperature [°C]	: -30 to 70	

**Remark(s)**

The installation has to be carried out according to the attached installation instruction.  
 Any additional requirements in countries where the product is going to be marketed have to be considered additionally.

12

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.  
 This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.


**Zertifizierungsstelle**
**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**

 http://www.tuv.com/safety E-mail: markcheck@tuv.com  
 Fax: +49 221 806-3935

  
 Weichun Li

GoodWe Technologies Co., Ltd.  
Yu Yongfeng

Date : 19.10.2022  
Our ref. : Huanggho 01  
Your ref.: Yu Yongfeng

No.90 Zijin Rd., New District  
215011 Suzhou  
P.R. China

**Ref : AN Certificate of Conf. Low Voltage D.**

Type of Equipment : Single Phase Energy Meter) (Three Phase Energy Meter)

Model Designation : See Certificate

Certificate No. : AN 50560798 0001

Report No. : CN22I3AF 001

Dear Yu Yongfeng,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body



Weichun Li

Enclosure

证书的详细资料请登陆[www.certipedia.com](http://www.certipedia.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

# CERTIFICATE

of Conformity  
Low Voltage Directive 2014/35/EU



Registration No.: AN 50560798 0001

Report No.: CN22I3AF 001

Holder: GoodWe Technologies Co., Ltd.  
No.90 Zijin Rd., New District  
215011 Suzhou  
P.R. China

Product: Solar collectors  
(Single Phase Energy Meter)(Three Phase Energy Meter)

Identification: Type Designation : GMK120 , GMK330 , GMK360  
Serial Number : Engineering Samples  
Remark(s) : Refer to test report CN22I3AF 001 for details.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Date 19.10.2022



  
Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

 The CE marking may be used if all relevant and effective EC Directives are complied with.



# EU Declaration of Conformity

**EN**

English

We **GoodWe Technologies Co.,Ltd.** declare under our sole responsibility that the products referred to below,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

comply with the following directives and regulations,

- **Electromagnetic compatibility Directive 2014/30/EU (EMC)**
- **Electrical Apparatus Low Voltage Directive 2014/35/EU (LVD)**
- **Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)**

and the following standards which were applied in accordance with the mentioned directives:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



marked date: 2022

Documentation demonstrating compliance with the above Directives and standards is available for inspection.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

# EU-Konformitätserklärung

**DE**Deutsch  
German

**GoodWe Technologies Co.,Ltd.** Erklärt hiermit, dass die nachstehend genannten Produkte,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

die folgenden Richtlinien und Verordnungen entsprechen:

- **Richtlinie zur elektromagnetischen Verträglichkeit 2014/30/EU (EMC)**
- **Richtlinie für elektrische Betriebsmittel in der Niederspannung 2014/35/EU (LVD)**
- **Beschränkung der Verwendung gefährlicher Stoffe in Elektro- und Elektronikgeräten 2011/65/EU sowie 2015/863 (RoHS)**

Die Konformität dieser Richtlinien wird nachgewiesen durch Einhaltung folgender Normen:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



Kennzeichnung seit: 2022

Unterlagen, aus denen die Einhaltung der oben genannten Richtlinien und Normen hervor geht, stehen zur Einsicht zur Verfügung.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

## Declaración UE de conformidad

**ES**Español  
Spanish

Nosotros **GoodWe Technologies Co.,Ltd.** declaramos bajo nuestra exclusiva responsabilidad que los productos a los que se hace referencia a continuación,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

cumplen con las siguientes directivas y reglamentos,

- **Directiva de compatibilidad electromagnética 2014/30/EU (EMC)**
- **Directiva de baja tensión 2014/35/EU (LVD)**
- **Directiva sobre sustancias peligrosas 2011/65/EU y (EU) 2015/863 (RoHS)**

y las siguientes normas que se aplicaron de conformidad con las directivas mencionadas:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



fecha de marcado:2022

La documentación que demuestra el cumplimiento de las directivas y normas anteriores está disponible para su inspección.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

**GoodWe Technologies Co.,Ltd.** Dichiara sotto la propria esclusiva responsabilità che i prodotti della serie sotto riportati,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

rispettano le seguenti direttive e regolamenti,

- **Direttiva compatibilità elettromagnetica 2014/30/EU (EMC)**
- **Direttiva Bassa tensione 2014/35/EU (LVD)**
- **Direttiva delle sostanze pericolosa 2011/65/UE e (UE) 2015/863 (RoHS)**

e le seguenti norme che sono state applicate in conformità con le direttive menzionate:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



data contrassegnata: 2022.

La documentazione che dimostra la conformità alle direttive e alle norme di cui sopra è disponibile per l'ispezione.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

## Déclaration UE de conformité

**FR**Français  
French

Nous, **GoodWe Technologies Co.,Ltd.**, déclarons sous notre propre responsabilité que ces produits,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

sont en conformité avec les directives

- **Directive compatibilité électromagnétique 2014/30/UE (EMC)**
- **Directive basse tension 2014/35/UE (LVD)**
- **Directive substances dangereuses 2011/65/EU et (EU) 2015/863 (RoHS)**

et avec les normes suivantes conformément aux directives ci-dessus:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



Date de marquage: 2022

La documentation démontrant la conformité aux directives et aux normes ci-dessus est disponible en cas d'inspection.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

**EU-conformiteitsverklaring****NL**Nederlands  
Dutch

Wij **GoodWe Technologies Co.,Ltd.** verklaren onder onze eigen verantwoordelijkheid dat de hieronder genoemde producten,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

voldoen aan de volgende richtlijnen en verordeningen,

- **Elektromagnetische compatibiliteit Richtlijn 2014/30/EU**
- **Laagspanningsrichtlijn elektrische apparaten 2014/35/EU**
- **Richtlijn gevaarlijke stoffen 2011/65/EU en (EU) 2015/863 (RoHS)**

en de volgende normen die werden toegepast in overeenstemming met de genoemde richtlijnen:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



gemarkeerde datum: 2022

Documentatie waaruit blijkt dat aan de bovenstaande richtlijnen en normen is voldaan, ligt ter inzage.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

**Declaração de Conformidade UE****PT**Português  
Portuguese

Nós **GoodWe Technologies Co.,Ltd.** declaramos sob a nossa única responsabilidade que os produtos abaixo referidos,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

cumprem as seguintes diretivas e regulamentos,

- **Diretiva de compatibilidade electromagnética 2014/30/EU (EMC)**
- **Diretiva de Baixa Tensão dos Aparelhos Eléctricos 2014/35/EU (LVD)**
- **Diretiva de Substâncias Perigosas 2011/65/EU and (EU) 2015/863 (ROHS)**

e as seguintes normas aplicadas de acordo com as referidas diretivas:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



data marcada: 2022.

Está disponível documentação que demonstra a conformidade com as directivas e normas acima referidas para inspecção.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

**Deklaracja zgodności UE****PL**Polski  
Polish

**GoodWe Technologies Co.,Ltd.** oświadcza na własną odpowiedzialność , że produkty, o których mowa poniżej,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

są zgodne z następującymi dyrektywami i rozporządzeniami,

- **Kompatybilność elektromagnetyczna Dyrektywa 2014/30/EU (EMC)**
- **Aparatura elektryczna Dyrektywa niskonapięciowa 2014/35/EU (LVD)**
- **Dyrektywa o substancjach niebezpiecznych 2011/65/UE i (UE) 2015/863 (RoHS)**

oraz następującymi normami, które zostały zastosowane zgodnie z wymienionymi dyrektywami:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



data oznakowania: 2022

Dokumentacja wykazująca zgodność z powyższymi dyrektywami i normami jest dostępna do wglądu.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

Η εταιρεία μας **GoodWe Technologies Co.,Ltd.** με την αποκλειστική τις ευθύνη δηλώνει ότι τα προϊόντα που αναφέρονται παρακάτω,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

Συμμορφώνονται με τις ακόλουθες οδηγίες και κανονισμούς,

- Οδηγία ηλεκτρομαγνητικής συμβατότητας 2014/30/EU (EMC)
- Οδηγία για τις ηλεκτρικές συσκευές χαμηλής τάσης 2014/35/EU (LVD)
- Οδηγία για τις επικίνδυνες ουσίες 2011/65/ΕΕ και (ΕΕ) 2015/863 (RoHS)

και τα ακόλουθα πρότυπα που εφαρμόστηκαν σύμφωνα με τις προαναφερθείσες οδηγίες:

Safety	EN 61010-1:2010+A1
EMC	EN 61326-1:2013



σημειωμένη ημερομηνία: 2022

Διατίθεται προς επιθεώρηση τεκμηρίωση που αποδεικνύει τη συμμόρφωση με τις ανωτέρω οδηγίες και πρότυπα.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

Ние **GoodWe Technologies Co.,Ltd.** декларираме единствено на наша отговорност, че продуктите, посочени по-долу,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

съответстват на следните директиви и регламенти,

- **Директива за електромагнитна съвместимост 2014/30/EU (EMC)**
- **Директива за ниско напрежение на електрическите апарати 2014/35/EU (LVD)**
- **Директива за опасните вещества 2011/65/ЕС и (ЕС) 2015/863 (RoHS)**

както и на следните стандарти, които са приложени в съответствие с посочените директиви:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



маркирана дата: 2022

Документация, доказваща съответствието с горепосочените директиви и стандарти, е на разположение за проверка.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

Noi, **GoodWe Technologies Co.,Ltd.**, declarăm sub responsabilitatea noastră exclusivă că produsele menționate mai jos,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

respectă următoarele directive și reglementări,

- **Directiva de compatibilitate electromagnetă 2014/30 / UE (EMC)**
- **Directiva 2014/35 / UE (LVD) privind dispozitivele electrice de joasă tensiune**
- **Directiva privind substanțele periculoase 2011/65/UE și (UE) 2015/863 (RoHS)**

următoarele standarde care au fost aplicate în conformitate cu directivele menționate:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



data marcată: 2022

Documentația care demonstrează conformitatea cu directivele și standardele de mai sus este disponibilă pentru inspecție.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

Mi **GoodWe Technologies Co.,Ltd.** kizárólagos felelősségünknek kijelentjük, hogy az alább említett termékek,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

megfelelnek a következő irányelveknek és előírásoknak,

- **Elektromágneses összeférhetőségi irányelv 2014/30/EU (EMC)**
- **Elektromos készülékekről szóló kiefeszültségű irányelv 2014/35/EU (LVD)**
- **Veszélyes anyagokról szóló 2011/65/EU és (EU) 2015/863 irányelv (RoHS)**

és a következő szabványokat, amelyeket az említett irányelvekkel összhangban alkalmaztak:

Safety	EN 61010-1:2010+A1
EMC	EN 61326-1:2013



megjelölt dátum: 2022

A fenti irányelveknek és szabványoknak való megfelelést igazoló dokumentáció ellenőrzésre rendelkezésre áll.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

*Jiang Tao*

We **GoodWe Technologies Co.,Ltd.** prohlašujeme na vlastní odpovědnost, že níže uvedené produkty,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

v souladu s následujícími směrnici a nařízeními,

- **Směrnice o elektromagnetické kompatibilitě 2014/30/EU (EMC)**
- **Směrnice o elektrických zařízeních nízkého napětí 2014/35/EU (LVD)**
- **Směrnice o nebezpečných látkách 2011/65/EU a (EU) 2015/863 (RoHS)**

a následující normy, které byly uplatňovány v souladu s uvedenými směrnici:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



označené datum: 2022

K nahlédnutí je k dispozici dokumentace prokazující shodu s výše uvedenými směrnici a normami.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

My **GoodWe Technologies Co.,Ltd.** na našu výlučnú zodpovednosť vyhlásiť, že výrobky uvedené nižšie,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

sú v súlade s nasledujúcimi smernicami a nariadeniami,

- **Smernica o elektromagnetickej kompatibilite 2014/30/EU (EMC)**
- **Smernica o elektrických zariadeniach nízkeho napätia 2014/35/EU (LVD)**
- **Smernica o nebezpečných látkach 2011/65/EÚ a (EÚ) 2015/863 (RoHS)**

a nasledujúce normy, ktoré sa uplatňovali v súlade s uvedenými smernicami:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



označený dátum: 2022

Dokumentácia preukazujúci súlad s vyššie uvedenými smernicami a normami je k dispozícii na kontrolu.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

Mi **GoodWe Technologies Co.,Ltd.** pod našom isključivom odgovornošću izjavljuju da su proizvodi navedeni u nastavku,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

pridržavati se sljedećih direktiva i propisa,

- **Electromagnetic compatibility Directive 2014/30/EU (EMC)**
- **Electrical Apparatus Low Voltage Directive 2014/35/EU (LVD)**
- **Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)**

i sljedeće norme koje su primijenjene u skladu s navedenim direktivama:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



označeni datum: 2022

Dokumentacija kojom se dokazuje usklađenost s gore navedenim direktivama i standardima dostupna je za inspekciju.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

**Izjava EU o skladnosti**

We **GoodWe Technologies Co.,Ltd.** pod našo izključno odgovornostjo izjaviti, da so spodaj navedeni izdelki,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

skladu z naslednjimi direktivami in uredbami,

- **Direktiva o elektromagnetni združljivosti 2014/30/EU (EMC)**
- **Niskonapetostna direktiva o električnih aparatih 2014/35/EU (LVD)**
- **Direktiva o nevarnih snoveh 2011/65/EU in (EU) 2015/863 (RoHS)**

in naslednjih standardov, ki so se uporabljali v skladu z navedenimi direktivami:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



označeni datum: 2022

Dokumentacija, ki dokazuje skladnost z zgoraj navedenimi direktivami in standardi, je na voljo za pregled.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

Vi, **GoodWe Technologies Co.,Ltd.** erklærer under eget ansvar, at følgende produkter,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

opfylder nedenstående standarder og forskrifter,

- **Elektromagnetisk kompatibilitet – Direktiv 2014/30/EU**
- **Lavspænding – Direktiv 2014/35/EU**
- **Direktiv om farlige stoffer 2011/65/EU og (EU) 2015/863 (RoHS)**

og anvendes i overensstemmelse med følgende harmoniserede standarder:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



markeret dato: 2022

Dokumenter som styrker ovenstående overholdelse kan udleveres hvis det kræves.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

Vi, **GoodWe Technologies Co.,Ltd.** intygar under eget ansvar att följande produkter,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

överensstämmer med de nedan listade standarder och förordningarna,

- **Elektromagnetisk kompatibilitet (EMC) - Direktiv (2014/30/EU)**
- **Elektrisk utrustning - Direktiv 2014/35/EU**
- **Direktivet om farliga ämnen 2011/65/EU och (EU) 2015/863 (RoHS)**

och tillämpas i enlighet med följande harmoniserade standarder:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



markerat datum: 2022

Dokument som styrker ovanstående överensstämmelse kan tillhandahållas vid behov.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

Me **GoodWe Technologies Co.,Ltd.** vakuuttaa yksinomaan vastuullamme, että jäljempänä tarkoitettut tuotteet,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

noudatettava seuraavia direktiivejä ja asetuksia,

- **Direktiivi sähkömagneettisesta yhteensopivuudesta 2014/30/EU (EMC)**
- **Sähkölaitteita koskeva pienjännitedirektiivi 2014/35/EU (LVD)**
- **Vaarallisia aineita koskeva direktiivi 2011/65/EU ja (EU) 2015/863 (RoHS)**

ja seuraavat standardit, joita sovellettiin mainittujen direktiivien mukaisesti:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



merkitty päivämäärä: 2022

Edellä mainittujen direktiivien ja standardien noudattamista osoittavat asiakirjat ovat saatavilla tarkastusta varten.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

**Eli vastavusdeklaratsioon****ET**Eesti  
Estonian

Me **GoodWe Technologies Co.,Ltd.** deklareerida meie ainuvastutusel, et allpool nimetatud tooted,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

vastavad järgmistele direktiividele ja määrustele,

- **Elektromagnetilise ühilduvuse direktiiv 2014/30/EU (EMC)**
- **Elektriseadmete madalpingedirektiiv 2014/35/EU (LVD)**
- **Ohtlike ainete direktiiv 2011/65/EL ja (EL) 2015/863 (RoHS)**

ja järgmised standardid, mida kohaldati vastavalt nimetatud direktiividele:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



märgitud kuupäev: 2022

Eespool nimetatud direktiividele ja standarditele vastavust tõendavad dokumendid on kontrollimiseks kättesaadavad.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

We **GoodWe Technologies Co.,Ltd.** vienīgi uz savu atbildību deklarējam, ka turpmāk minētie produkti,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

atbilst šādām direktīvām un regulām ,

- **Elektromagnētiskās saderības direktīva 2014/30/EU (EMC)**
- **Elektroierīču zemsprieguma direktīva 2014/35/EU (LVD)**
- **Bīstamo vielu direktīva 2011/65/ES un (ES) 2015/863 (RoHS)**

un šādiem standartiem, kas piemēroti saskaņā ar minētajām direktīvām,:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



atzīmētais datums: 2022

Dokumentācija, kas apliecina atbilstību iepriekš minētajām direktīvām un standartiem, ir pieejama pārbaudei.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

Mes **GoodWe Technologies Co.,Ltd.** pagal mūsų atsakomybę deklaruoti, kad toliau nurodyti produktai,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

laikytis šių direktyvų ir reglamentų,

- **Elektromagnetinio suderinamumo direktyva 2014/30/EU (EMC)**
- **Elektros prietaisų žemos įtampos direktyva 2014/35/EU (LVD)**
- **Pavojingų medžiagų direktyva 2011/65/ES ir (ES) 2015/863 (RoHS)**

ir toliau nurodytus standartus, kurie buvo taikomi pagal minėtas direktyvas,:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



pažymėta data: 2022

Susipažinti galima su dokumentais, įrodančiais atitiktį pirmiau minėtoms direktyvoms ir standartams.

Suzhou, 2022-11-30

Tao Jiang  
Safety Manager  
GoodWe Technologies Co.,Ltd.

Aħna **GoodWe Technologies Co.,Ltd.** niddikjaraw taħt ir-responsabbiltà unika tagħna li l-prodotti msemmija hawn taħt,

- Meter: GMK120, GMK330, GMK360, GM330, GMK110,GMK110D

jikkonformaw mad-direttivi u r-regolamentilgejjin,

- **Electromagnetic compatibility Directive 2014/30/EU (EMC)**
- **Electrical Apparatus Low Voltage Directive 2014/35/EU (LVD)**
- **Restrictions of Hazardous Substances Directive 2011/65/EU and (EU) 2015/863 (RoHS)**

u l-istandards li ġejjin li ġew applikati f'konformità mad-direttivi msemmija fl-:

<b>Safety</b>	<b>EN 61010-1:2010+A1</b>
<b>EMC</b>	<b>EN 61326-1:2013</b>



data mmarkata: 2022

Dokumentazzjoni li turi l-konformità mad-Direttivi u l-istandards ta' hawn fuq hija disponibbli għall-ispezzjoni.

Suzhou, 2022-11-30

Tao Jiang

Safety Manager

GoodWe Technologies Co.,Ltd.

# Zertifikat

# Certificate



**Zertifikat Nr. Certificate No.**  
R 50560797

**Blatt Sheet**  
0002

**Ihr Zeichen Client Reference**  
Yu Xiao

**Unser Zeichen Our Reference**  
01-Huanggho-CN22I3AF 002

**Ausstellungsdatum**  
14.04.2025

**Date of Issue**  
(day/mo/yr)

**Genehmigungsinhaber License Holder**

GoodWe Technologies Co., Ltd.  
No.90 Zijin Rd., New District  
215011 Suzhou  
P.R. China

**Fertigungsstätte Manufacturing Plant**

GoodWe Technologies Co., Ltd.  
No.90 Zijin Rd., New District  
215011 Suzhou  
P.R. China

**Prüfzeichen Test Mark**



Type Approved  
Safety  
Regular Production  
Surveillance

www.tuv.com  
ID 1111260130

**Geprüft nach Tested acc. to**

EN 61010-1:2010+A1+AC  
IEC 61010-1:2010+A1

**Zertifiziertes Produkt (Geräteidentifikation)**  
**Certified Product (Product Identification)**

**Lizenzentgelte - Einheit**  
**License Fee - Unit**

Solar collectors (Single Phase Energy Meter), (Three Phase Energy Meter)

as page 0001

**Modification**

Type Designation : GMK120 ; GMK330 ; GMK360

Rated Input Voltage [Va.c.] : 1N+P: 90-264Vac;  
3P+N: 90-264Vac;  
3P+N: 90-264Vac

CT Input current : 200A:50mA, 120A: 40mA

**Remark(s)**

The installation has to be carried out according to the installation instruction specified by the manufacturer. Any additional requirements in countries where the product is going to be marketed have to be considered additionally.

ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.  
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.



**Zertifizierungsstelle**

**TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg**

http://www.tuv.com/safety E-mail: markcheck@tuv.com  
Fax: +49 221 806-3935

**Bowen Dong**