

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50376511

Blatt *Sheet*  
0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
Jing Xie	01-CSC-50075616 002	17.04.2017	(day/mo/yr)

### Genehmigungsinhaber *License Holder*

JIANGSU GOODWE POWER SUPPLY  
TECHNOLOGY CO., LTD.  
NO. 189 Kun Lun Shan Road  
Suzhou New District  
Jiangsu 215163  
P.R. China

### Fertigungsstätte *Manufacturing Plant*

JIANGSU GOODWE POWER SUPPLY  
TECHNOLOGY CO., LTD.  
NO. 189 Kun Lun Shan Road  
Suzhou New District  
Jiangsu 215163  
P.R. China

### Prüfzeichen *Test Mark*



Bauart geprüft  
Sicherheit  
Regelmäßige  
Produktions-  
überwachung

www.tuv.com  
ID 1419046190

### Geprüft nach *Tested acc. to*

IEC 62109-1:2010  
IEC 62109-2:2011  
EN 62109-1:2010  
EN 62109-2:2011

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

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

#### PV-Wechselrichter (Hybrid Inverter)

Type Designation	: GW5048-EM	GW3648-EM	GW3048-EM	10
V <sub>max</sub> PV [Vd.c.]	: 550			
I <sub>sc</sub> PV [Ad.c.]	: 13.8/13.8		13.8	
MPP Voltage Range [Vd.c.]	: 100-500			
Max. Input Current [Ad.c.]	: 11/11		11	
Overvoltage Category (OVC)	: II for PV			
Rated Output Volt. [Va.c.]	: 230			
Rated Output Freq. [Hz]	: 50/60			
Rated Output Power [kW]	: 5.0	3.68	3.0	
Max. Output Curr. [Aa.c.]	: 22.8	16.0	13.6	
Power Factor	: [-0.80, 0.80]			
Overvoltage Category (OVC)	: III for AC mains			

continued on page 0002

10

### ANLAGE (Appendix): 1.0

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.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: ccr-Validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety



Weichun Li

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50376511

Blatt *Sheet*  
0002

Ihr Zeichen *Client Reference*  
Jing Xie

Unser Zeichen *Our Reference*  
01-CSC-50075616 002

Ausstellungsdatum *Date of Issue*  
17.04.2017 (day/mo/yr)

**Genehmigungsinhaber *License Holder***  
JIANGSU GOODWE POWER SUPPLY  
TECHNOLOGY CO., LTD.  
NO. 189 Kun Lun Shan Road  
Suzhou New District  
Jiangsu 215163  
P.R. China

**Fertigungsstätte *Manufacturing Plant***  
JIANGSU GOODWE POWER SUPPLY  
TECHNOLOGY CO., LTD.  
NO. 189 Kun Lun Shan Road  
Suzhou New District  
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P.R. China

**Prüfzeichen *Test Mark***



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ID 1419046190

**Geprüft nach *Tested acc. to***

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

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

PV-Wechselrichter (Hybrid Inverter)

as page 0001 continuation

Protective Class : I  
Ingress Protection (IP) : IP 65  
Pollution Degree (PD) : PD 3  
Operating Temperature [°C] : -25 to 60 (> 45 derating)  
Altitude [m] : 2000  
Type of Inverter : Non-isolated

**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.

**ANLAGE (Appendix) : 1.0**

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.



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

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety

Weichun Li

JIANGSU GOODWE POWER SUPPLY  
TECHNOLOGY CO., LTD.  
Xie Jing  
Technic Support Dept.  
NO. 189 Kun Lun Shan Road  
Suzhou New District  
Jiangsu 215163  
P.R. China

Date : 17.04.2017  
Our ref. : CSC 01  
Your ref.: Jing Xie

**Ref : R TÜV-Mark Approval**

Type of Equipment : Hybrid Inverter  
Model Designation : See Certificate  
Certificate No. : R 50376511 0001  
Report No. : 50075616 002

Dear Xie Jing,

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.

With kind regards,

Certification Body

  
Weichun Li

cc: JIANGSU GOODWE POWER SUPPLY

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

# C E R T I F I C A T E



## of Conformity Low Voltage Directive 2014/35/EU

Registration No.: AN 50376519 0001

Report No.: 50075616 002

**Holder:** JIANGSU GOODWE POWER SUPPLY  
TECHNOLOGY CO., LTD.  
NO. 189 Kun Lun Shan Road  
Suzhou New District  
Jiangsu 215163  
P.R. China

**Product:** PV-Inverter  
(Hybrid Inverter)

**Identification:** Type Designation : GW5048-EM GW3648-EM GW3048-EM

Serial Number : Engineering Samples

Remark : Issued in conjunction with TÜV Rheinland  
license R 50376511 pages 0001-0002.

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 17.04.2017

  
Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

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

JIANGSU GOODWE POWER SUPPLY  
TECHNOLOGY CO., LTD.  
Xie Jing  
Technic Support Dept.  
NO. 189 Kun Lun Shan Road  
Suzhou New District  
Jiangsu 215163  
P.R. China

Date : 17.04.2017  
Our ref. : CSC 01  
Your ref.: Jing Xie

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

Type of Equipment : Hybrid Inverter  
Model Designation : See Certificate  
Certificate No. : AN 50376519 0001  
Report No. : 50075616 002

Dear Xie Jing,

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

CC: JIANGSU GOODWE POWER SUPPLY

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