

C E R T I F I C A T E
of Conformity



Registration No.: AK 50375514 0001

Report No.: 50075417 001

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

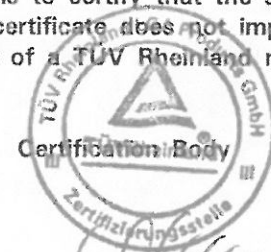
Product: PV-Inverter
(Hybrid Inverter)

Identification: Type Designation: GW5048-EM GW3648-EM GW3048-EM
Serial Number : Engineering Samples
Firmware Version: 1.00.00
Remark : Refer to test report 50075417 001
for details.

Tested acc. to: VDE-AR-N 4105/08.11
E DIN VDE V 0124-100/10.13

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Date 05.04.2017



Weichun Li

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Technical Compliance Statement



Ref. No.: ACWE-RC170084(C1W1702021)

For the following equipment

Applicant : Jiangsu Goodwe Power Supply Technology Co.,Ltd.
Manufacturer : Jiangsu Goodwe Power Supply Technology Co.,Ltd.
Product : PV Inverter
Model Number : (1)GW3048-EM (2)GW3648-EM (3)GW5048-EM
Brand : GOODWE

We, **AUDIX Technology (Wujiang) Co., Ltd. EMC Dept.** hereby certify that the above product has been tested by us with the listed standards and found in compliance with the council EMC directive 2014/30/EU. The test data & results are issued on the EMC test report No. **ACWE-E1703006**.

Emission: EN 61000-6-3:2007+A1:2011+AC:2012; EN 61000-6-4:2007+A1:2011
EN 61000-3-12:2011+AC:2013 and EN 61000-3-11:2000

Immunity: EN 61000-6-1:2007; EN 61000-6-2:2005
(IEC 61000-4-2:2008, IEC 61000-4-3:2006+A2:2010,
IEC 61000-4-4:2012, IEC 61000-4-5:2014,
IEC 61000-4-6:2013, IEC 61000-4-8:2009, IEC 61000-4-11:2004)

Mar.28, 2017

Ken Lu/ Assistant General Manager

AUDIX Technology (Wujiang) Co., Ltd. EMC Dept.

The statement is based on a single evaluation of one sample of the above-mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab logo.

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
R 50376511 0001

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
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 1419048190

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
Vmax PV [Vd.c.]	: 550	
Isc 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

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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

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
R 50376511 0002

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
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*
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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)

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.

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

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group



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查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

TÜV Rheinland (China) Ltd.
莱茵检测认证服务(中国)有限公司

Unit 707, AVIC Bldg., No. 10B,
Central Road, East 3rd Ring
Road, Chaoyang District,
Beijing, 100022, P.R.China

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艾维克大厦707室
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Internet: <http://www.chn.tuv.com>

正本

檔 號：
保存年限：

經濟部能源局 函

地址：臺北市復興北路2號12-13樓
承辦人：黃韋智
電話：(02)2775-7691
傳真：(02)2775-7728
電子信箱：wchuang@moeaboe.gov.tw

桃園市大溪區信義路835巷43號

受文者：日山能源科技有限公司

發文日期：中華民國106年12月25日

發文字號：能技字第10600244550號

類別：普通件

密等及解密條件或保密期限：普通

附件：

主旨：有關貴公司函詢「太陽光電變流器產品登錄要點」一案，復如說明，請查照。

說明：

- 一、復貴公司106年11月13日日山字第201711113-001號函，暨依「太陽光電變流器產品登錄作業要點」（簡稱本要點）辦理。
- 二、經查貴公司所提本要點第3點規定及所申請登錄太陽光電變流器產品（產品型號：GW3648D-ES、GW5048D-ES）之疑義一節，本局業以106年11月7日能技字第10600206150號函復釋示在案，合先敘明。
- 三、依本要點之精神，本登錄平台係屬自願性申請，揭示變流器產品規格及安全性能認證資訊，提供設置民眾、系統業者及經營電力網之電業等參考；未經登錄之變流器產品，仍可逕送經營電力網之電業進行併聯審查。

正本：日山能源科技有限公司

副本：財團法人工業技術研究院

局長 林全飛

依照分層負責規定
授權 職銜 主辦 發行