

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50314895

Blatt *Page*  
0001

Ihr Zeichen *Client Reference*  
R.L

Unser Zeichen *Our Reference*  
02-zhangco- 17049364 001 06.07.2015

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

## Genehmigungsinhaber *License Holder*

Shenzhen Kstar New Energy  
Company Limited  
6/F, 8th Building, Kstar Factory Area  
FuMing Industrial Zone, Guanlan,  
BaoAn, Shenzhen 518110  
P.R. China

## Fertigungsstätte *Manufacturing Plant*

Shenzhen KSTAR Science And  
Technology Co.,Ltd. Guangming Branch  
Kstar High Tech Park,  
Guangming High Technology Town,  
Gongming Street, Baoan District,  
Shenzhen City, Guangdong Province,  
P.R. China

## Prüfzeichen *Test Mark*



Bauart geprüft  
Sicherheit  
Regelmäßige  
Produktions-  
überwachung

www.tuv.com  
ID 2000000000

## Geprüft nach *Tested acc. to*

IEC 62109-1:2010  
IEC 61439-1:2011  
EN 62109-1:2010  
EN 61439-1:2011

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

Anschluss-Verteiler-Gehäuse (Smart PV Combiner box)

Type Designation : GSCxxzyy  
(xx= "8", "12" or "16", z= "-" or blank, yy= blank, "D", "M" or "DM")

8

	GSC08zyy	GSC12zyy	GSC16zyy
Vmax PV [Vd.c.]	: 1000		
Input Voltage range [Vd.c.]	: 200-1000		
Input I <sub>max</sub> per string [Ad.c.]	: 9		
No. of Input strings	: 8	12	16
Output voltage range [Vd.c.]	: 200-1000		
Output I <sub>max</sub> [Ad.c.]	: 72	108	144

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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)8 06 - 13 71 e-mail: cert-validity@de.tuv.com  
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Weichun Li

# Zertifikat

# Certificate



Zertifikat Nr. *Certificate No.*  
R 50314895

Blatt *Page*  
0002

Ihr Zeichen *Client Reference*  
R.L

Unser Zeichen *Our Reference*  
02-zhangco- 17049364 001 06.07.2015

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

## Genehmigungsinhaber *License Holder*

Shenzhen Kstar New Energy  
Company Limited  
6/F, 8th Building, Kstar Factory Area  
FuMing Industrial Zone, Guanlan,  
BaoAn, Shenzhen 518110  
P.R. China

## Fertigungsstätte *Manufacturing Plant*

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Kstar High Tech Park,  
Guangming High Technology Town,  
Gongming Street, Baoan District,  
Shenzhen City, Guangdong Province,  
P.R. China

## Prüfzeichen *Test Mark*



Bauart geprüft  
Sicherheit  
Regelmäßige  
Produktions-  
überwachung

www.tuv.com  
ID 200000000

## Geprüft nach *Tested acc. to*

IEC 62109-1:2010  
IEC 61439-1:2011  
EN 62109-1:2010  
EN 61439-1:2011

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

Lizenzentgelte - Einheit  
*License Fee - Unit*

Anschluss-Verteiler-Gehäuse (Smart PV Combiner box)

as page 0001  
Continuation

Protective Class : I  
Enclosure Protection(IP) : IP65  
Pollution Degree(PD) : PD 3  
Altitude[m] : 3000  
Operating Temperature Range[°C] : -30 to +55

### Remark:

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)8 06 - 13 71 e-mail: cert-validity@de.tuv.com  
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



*Signature*

Weichun Li

Shenzhen Kstar New Energy Company  
Limited  
Roger Lee

Date : 06.07.2015  
Our ref. : zhangco 02  
Your ref.: R.L

-  
6/F,8th Building, Kstar Factory  
Area  
FuMing Industrial Zone, Guanlan,  
BaoAn  
Shenzhen 518110

**Ref : R TÜV-Mark Approval**

Type of Equipment : Smart PV Combiner box  
Model Designation : See Certificate  
Certificate No. : R 50314895 0001  
Report No. : 17049364 001

Dear Roger Lee,

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

Enclosure

证书的详细资料请登陆[www.tuvdotcom.com](http://www.tuvdotcom.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 2006/95/EC

Registration No.: AN 50315166 0001

Report No.: 17049364 001

**Holder:** Shenzhen Kstar New Energy  
Company Limited  
6/F,8th Building, Kstar Factory Area  
FuMing Industrial Zone, Guanlan, BaoAn  
Shenzhen 518110  
P.R. China

**Product:** Combiner Box  
(Smart PV Combiner box)

**Identification:** Type Designation : GSCxxzyy  
(xx= "8", "12" or "16", z="-" or blank,  
yy= blank, "D", "M" or "DM")  
Serial Number : Enigneering Sample  
Remark : Issued in conjunction with TÜV Rheinland  
license R 50314895 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 all revision of Annex I of Council Directive 2006/95/EC, in its latest amended version, 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 III of the Directive.



Date 06.07.2015

  
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

Shenzhen Kstar New Energy Company  
Limited  
Roger Lee

Date : 06.07.2015  
Our ref. : zhangco 02  
Your ref.: R.L

-  
6/F, 8th Building, Kstar Factory  
Area  
FuMing Industrial Zone, Guanlan,  
BaoAn  
Shenzhen 518110

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

Type of Equipment : Smart PV Combiner box  
Model Designation : See Certificate  
Certificate No. : AN 50315166 0001  
Report No. : 17049364 001

Dear Roger Lee,

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.tuvdotcom.com](http://www.tuvdotcom.com)查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询