

LG Electronics Inc.
Mr. HyunDeok Hwang
-
LG Twin Towers
20, Yeouido-dong, Yeongdeungpo-gu
Seoul 150-721
Rep. of Korea

Date : 22.05.2019
Our ref. : WKS ZKR1
Your ref.: Mr. H.D. Hwang

Ref : R TÜV-Mark Approval

Type of Equipment : Grid-Connected Hybrid Inverter
Model Designation : See Certificate
Certificate No. : R 50432442 0001
Report No. : 50235532 001

Dear Mr. HyunDeok Hwang,

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



Young-Yul Hwang

cc: LG Electronics Inc.

Enclosure

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Sheet*
R 50432442 0001

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Ausstellungsdatum *Date of Issue*
Mr. H.D. Hwang ZKR1-WKS-50235532 001 22.05.2019 (day/mo/yr)

Genehmigungsinhaber *License Holder* Fertigungsstätte *Manufacturing Plant*
LG Electronics Inc. LG Electronics Inc.
LG Twin Towers 84, Wanam-ro, Seongsan-gu,
20, Yeouido-dong, Yeongdeungpo-gu Changwon-si, Gyeongsangnam-do 51554
Seoul 150-721 Rep. of Korea
Rep. of Korea

Prüfzeichen *Test Mark*



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*

Energy Storage system (Grid-Connected Hybrid Inverter)

Type Designation : D010KE1N211 , D008KE1N211 8

Vmax PV [Vd.c.] : 1000
Isc PV [Ad.c.] : 2*15
MPP Voltage Range [Vd.c.] : 150-800
Max. Input Current [Ad.c.] : 2*13
Overvoltage Category (OVC) : II for PV

Rated Output Voltage [Va.c.] : 3N~ 400
Rated Output Frequency [Hz] : 50
Rated Output Power [W] : 10000, 8000
Max. Output Current [Aa.c.] : 3*16, 3*13
Power factor : [-0.80, 0.80]
Overvoltage Category (OVC) : III for AC Mains

continued on page 0002

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



Young-Yul Hwang

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50432442

Blatt *Sheet*
0002

Ihr Zeichen *Client Reference*
Mr. H.D. Hwang

Unser Zeichen *Our Reference*
ZKR1-WKS-50235532 001

Ausstellungsdatum *Date of Issue*
22.05.2019 (day/mo/yr)

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LG Twin Towers
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Seoul 150-721
Rep. of Korea

Fertigungsstätte *Manufacturing Plant*
LG Electronics Inc.
84, Wanam-ro, Seongsan-gu,
Changwon-si, Gyeongsangnam-do 51554
Rep. of Korea

Prüfzeichen *Test Mark*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1419067551

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*

Energy Storage system (Grid-Connected Hybrid Inverter)

as page 0001 continuation

Type of Battery : Li-ion
Rated Voltage [Vd.c.] : 400
Max. Charge Current [Ad.c.] : 18.9

Protective Class : I
Ingress Protection (IP) : IP21
Pollution Degree (PD) : PD2
Altitude [m] : 2000
Operating Temperature [°C] : 0 to 40
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.

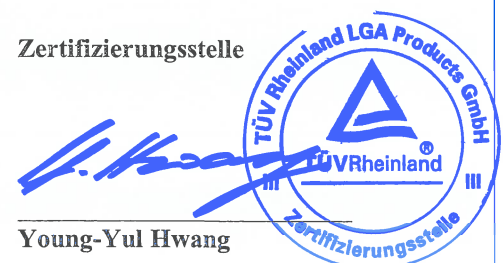
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Zertifizierungsstelle



Young-Yul Hwang