

TUV Rheinland Korea Ltd.
Mr. HwangHyun No Project Engineer
Products/Electrical/BATT
E&C Venture Dream Tower 6
41, Digital-ro 31-gil, Guro-gu,
Seoul 08375
Rep. of Korea

Date : 07.03.2018
Our ref. : HHN ZOL
Your ref.: 386141

Ref : R1 TÜV-Mark Approval - local

Type of Equipment : Secondary System, LiNiMnCoO2, as page 0001
Model Designation : See Certificate
Certificate No. : R1 50348381 0003
Report No. : 50045831 003

Dear Mr. HwangHyun No,

Please find enclosed certification documents as specified above.

Please forward these originals to the certificate holder.

If you contact our office, please quote our reference above.

We thank you for your cooperation.

The license holder is: LG Chem, Ltd.
128, Yeoui-daero,
Yeongdeungpo-gu, Seoul 150-721
Rep. of Korea

With kind regards,

Certification Body



Tetsuya Hashimoto

Enclosure

LG Chem, Ltd.
Mr. Jaeseung Lee Assistant Manager
Quality Management Dept.
128, Yeoui-daero,
Yeongdeungpo-gu, Seoul 150-721
Rep. of Korea

Date : 07.03.2018
Our ref. : HHN ZOL
Your ref.: 386141

Ref : R1 TÜV-Mark Approval - local

Type of Equipment : Secondary System, LiNiMnCoO₂, as page 0001
Model Designation : See Certificate
Certificate No. : R1 50348381 0003
Report No. : 50045831 003

Dear Mr. Jaeseung Lee,

The above specified technical 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.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services. Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body



Tetsuya Hashimoto

cc: TÜV Rheinland Korea Ltd.

Enclosure

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R1 50348381

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0003

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
386141	ZOL-HHN-50045831 003	07.03.2018 (day/mo/yr)

Genehmigungsinhaber *License Holder*
LG Chem, Ltd.
128, Yeoui-daero,
Yeongdeungpo-gu, Seoul 150-721
Rep. of Korea

Fertigungsstätte *Manufacturing Plant*
PEOPLEWORKS
225, Suchul-daero,
Gumi-si, Gyeongsangbuk-do 39270
Rep. of Korea

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
IEC 62619:2017

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Lithium-ion battery Secondary System, LiNiMnCoO₂, as page 0001

Changes

Test Requirement: IEC 62619:2012/NP (21A/499/NP)

changed to: (see above)

BMU version: 1.1.0.0, V03

changed to: 1.6.2.0, V03

ANLAGE (Appendix): 1.2

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 Japan Ltd., 3-19-5 Shin Yokohama, Yokohama 222-0033, Japan

Tel.: (+81/45)470-1850 e-mail: info@jpn.tuv.com
Fax: (+81/45)473-5221 http://www.tuv.com/jp



Zertifizierungsstelle

Tetsuya Hashimoto

TUV Rheinland Korea Ltd.
Mr. HwangHyun No Project Engineer
Products/Electrical/BATT
E&C Venture Dream Tower 6
197-28, Guro-dong, Guro-gu
Seoul 152-719
Rep. of Korea

Date : 16.06.2016
Our ref. : HHN ZOL
Your ref.: 386141

Ref : R1 TÜV-Mark Approval (local)

Type of Equipment : Secondary System, LiNiMnCoO2
Model Designation : See Certificate
Certificate No. : R1 50348381 0001
Report No. : 50045831 001

Dear Mr. HwangHyun No,

Please find enclosed certification documents as specified above.

Please forward these originals to the certificate holder.

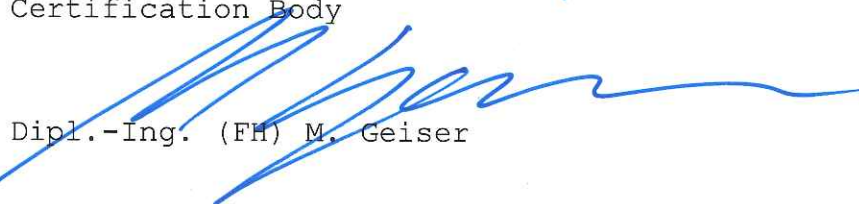
If you contact our office, please quote our reference above.

We thank you for your cooperation.

The license holder is: LG Chem, Ltd.
128, Yeoui-daero,
Yeongdeungpo-gu, Seoul 150-721
Rep. of Korea

With kind regards,

Certification Body


Dipl.-Ing. (FH) M. Geiser

Enclosure

LG Chem, Ltd.
Mr. Jaeseung Lee Assistant Manager
Quality Management Dept.
128, Yeoui-daero,
Yeongdeungpo-gu, Seoul 150-721
Rep. of Korea

Date : 16.06.2016
Our ref. : HHN ZOL
Your ref.: 386141

Ref : R1 TÜV-Mark Approval (local)

Type of Equipment : Secondary System, LiNiMnCoO2
Model Designation : See Certificate
Certificate No. : R1 50348381 0001
Report No. : 50045831 001

Dear Mr. Jaeseung Lee,

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

Please find enclosed your certificate.

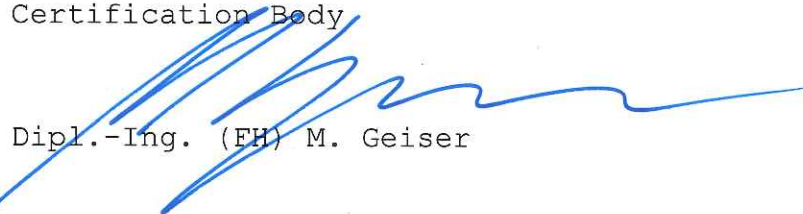
As the photo documentation is the evidence of certification, you need to keep the authorized copy for reference purposes as long as your certificate remains valid and the products are being sold.

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

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services. Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body


Dipl.-Ing. (FH) M. Geiser

cc: TÜV Rheinland Korea Ltd.

Enclosure

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R1 50348381

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0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
386141	ZOL-HHN-50045831 001	16.06.2016	(day/mo/yr)

Genehmigungsinhaber *License Holder*
LG Chem, Ltd.
128, Yeoui-daero,
Yeongdeungpo-gu, Seoul 150-721
Rep. of Korea

Fertigungsstätte *Manufacturing Plant*
PEOPLEWORKS
228, Igondan-ro,
Gumi-si, Gyeongsangbuk-do, 730-904
Rep. of Korea

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
IEC 62619:2012/NP (21A/499/NP)

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Lithium-ion battery Secondary System, LiNiMnCoO₂

Type Designation: RESU 3.3
Containing Cell: JH3
System Configuration: [1P_14S] Cells

6

Rated Capacity: 63Ah
Nominal Voltage: 51.8V
Nominal Charging Voltage: 58.8V
Watt-hour Rating: 3300Wh
BMU Identification: RESU GEN2, RESU_JH3
BMU version: 1.0.0.0, V03

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ANLAGE (Appendix): 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.

TÜV Rheinland Japan Ltd., 3-19-5 Shin Yokohama, Yokohama 222-0033, Japan

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Fax: (+81/45)473-5221 http://www.tuv.com/jp



Zertifizierungsstelle

Dipl.-Ing. (FH) M. Geiser