

Date : 08.02.2017

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

**Re. : TU TUV Rheinland US Mark**

Type of Equipment : Secondary System, LiNiMnCoO2, as page 01  
Model Designation : See Certificate  
Certificate No. : TU 50349808 0003  
File No. : 50047569 004  
Engineer/Contact : Hwang-Hyun No  
Standard(s) : UL 1973:2013

Dear Madame or Sir,

Please find enclosed certification documents as specified above.

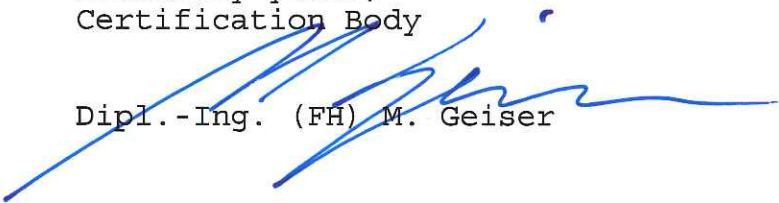
Please forward these originals to the certificate holder.

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

We thank you for your cooperation.

If we can be of any further assistance to you,  
please do not hesitate to contact us.

Sincerely yours,  
Certification Body

  
Dipl.-Ing. (FH) M. Geiser

Enclosure

Date : 08.02.2017

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

Attn: Mr. Jaeseung Lee Quality Management Dept.

**Re. : TU TUV Rheinland US Mark**

Type of Equipment : Secondary System, LiNiMnCoO<sub>2</sub>, as page 01  
Model Designation : See Certificate  
Certificate No. : TU 50349808 0003 ~04  
File No. : 50047569 004  
Engineer/Contact : Hwang-Hyun No  
Standard(s) : UL 1973:2013

Dear Madame or Sir,

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.

If we can be of any further assistance to you, please do not hesitate to contact us.

Sincerely yours,  
Certification Body

  
Dipl.-Ing. (FH) M. Geiser

Enclosure

# Certificate



Certificate no.

TU 50349808 03

**License Holder:**

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

**Manufacturing Plant:**

PEOPLEWORKS  
225, Suchul-daero,  
Gumi-si, Gyeongsangbuk-do 39270  
Rep. of Korea

**Test report no.:** USA-HHN 50047569 004

**Client Reference:** 386141

**Tested to:** UL 1973:2013

**Certified Product:** Secondary System, LiNiMnCoO<sub>2</sub>, as page 01

**License Fee - Units**

**Changes**

Nominal Voltage: 507V  
changed to: Charge 507 V / Discharge 498 V, (CMA: 155.4 V)  
Nominal Charging Voltage: 550V  
changed to: 550 V, (CMA: 176.4 V)  
BMU Identification/Type No.: RESU-JH3  
changed to: JH3, R4 (1.1.0.0, V10)  
BMU version: 1.1.0.0, V03  
changed to: 1.4.6.0, 1.0

Appendix: 1.2

**Licensed Test mark:**



**Date of Issue**

(day/mo/yr)

08/02/2017

# Certificate



Certificate no.

TU 50349808 04

**License Holder:**

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Certified Product: Secondary System, LiNiMnCoO<sub>2</sub>, as page 01

License Fee - Units

Addition

Type Designation:

RESU10H / R15563P3SSEG

1

Nominal Voltage:

Charge: 440 V, Discharge: 400 V, (CMA: 155.4V)

Nominal charging voltage: 450 V, (CMA: 176.4V)

1

Appendix: 1.2

Licensed Test mark:



Date of Issue

(day/mo/yr)

08/02/2017