

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50508937

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
2163612

Unser Zeichen *Our Reference*
ZKR1-BSH-KR21K9X3 001

Ausstellungsdatum *Date of Issue*
23.06.2021
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Samsung SDI Co., Ltd.
150-20, Gongse-ro, Giheung-gu,
Yongin, Gyeonggi-do, 446-577
Republic of Korea

Fertigungsstätte *Manufacturing Plant*

Samsung SDI Co., Ltd.
163, Bangudae-ro, Samnam-myeon,
Ulju-gun, Ulsan, 689-710
Republic of Korea

Prüfzeichen *Test Mark*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111241498

Geprüft nach *Tested acc. to*

IEC 62619:2017
EN 62619:2017

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Lithium-ion battery Rechargeable Li-ion Battery Module

Type Designation	: MS8943E101A	10
Nominal Voltage	: DC 79.86 V	
Rated Capacity	: 112 Ah	
Upper limit Charging Voltage	: DC 90.86 V	

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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

Zertifizierungsstelle



Young-Yul Hwang

Samsung SDI Co., Ltd.
Mr. Seong-Il Cho Engineer
Quality
150-20, Gongse-ro, Giheung-gu,
Yongin, Gyeonggi-do, 446-577
Republic of Korea

Date : 23.06.2021
Our ref. : BSH ZKR1
Your ref.: 2163612

Ref : R TÜV-Mark Approval

Type of Equipment : Rechargeable Li-ion Battery Module
Model Designation : See Certificate
Certificate No. : R 50508937 0001
Report No. : KR21K9X3 001

Dear Mr. Seong-Il Cho,

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



Young-Yul Hwang

cc: Samsung SDI Co., Ltd.

Enclosure

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50509226

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0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum <i>Date of Issue</i>
2163612	ZKR1-BSH-KR218EXN 001	25.06.2021 (day/mo/yr)

Genehmigungsinhaber *License Holder*
Samsung SDI Co., Ltd.
150-20, Gongse-ro, Giheung-gu,
Yongin, Gyeonggi-do, 446-577
Republic of Korea

Fertigungsstätte *Manufacturing Plant*
Samsung SDI Co., Ltd.
163, Bangudae-ro, Samnam-myeon,
Ulju-gun, Ulsan, 689-710
Republic of Korea

Prüfzeichen *Test Mark*



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

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Lithium-ion battery Rechargeable Li-ion Battery System

Type Designation	: (1) PHR1433-001A ,	10
(2) PHR1433-002A , (3) PHR1343-001A , (4) PHR1253-002A ,		3
(5) PHR1163-001A , (6) PHR1073-001A , (7) PHR9832-001A ,		3
(8) PHR8942-001A , (9) PHR7282-003A , (10) PHR7152-001A		3

Rated Capacity : 112 Ah

Nominal Voltage : (1) DC 1277.76 V,
(2) DC 1277.76 V, (3) DC 1197.9 V, (4) DC 1118.04 V,
(5) DC 1038.18 V, (6) DC 958.32 V, (7) DC 878.46 V,
(8) DC 798.6 V, (9) DC 718.74 V, (10) DC 638.88 V

Upper limit Charging Voltage : (1) DC 1453.76 V,
(2) DC 1453.76 V, (3) DC 1362.9 V, (4) DC 1272.04 V,
(5) DC 1181.18 V, (6) DC 1090.32 V, (7) DC 999.46 V,
(8) DC 908.6 V, (9) DC 817.74 V, (10) DC 726.88 V

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ANLAGE (Appendix): 1.0

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TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

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Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Young-Yul Hwang

Samsung SDI Co., Ltd.
Mr. Seong-Il Cho Engineer
Quality
150-20, Gongse-ro, Giheung-gu,
Yongin, Gyeonggi-do, 446-577
Republic of Korea

Date : 25.06.2021
Our ref. : BSH ZKR1
Your ref.: 2163612

Ref : R TÜV-Mark Approval

Type of Equipment : Rechargeable Li-ion Battery System
Model Designation : See Certificate
Certificate No. : R 50509226 0001
Report No. : KR218EXN 001

Dear Mr. Seong-Il Cho,

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

Please find enclosed your certificate.

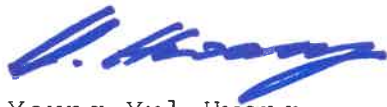
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With kind regards,

Certification Body



Young-Yul Hwang

cc: Samsung SDI Co., Ltd.

Enclosure