

Date : 07/09/2020

ABB Power Electronics
601 Shiloh Rd.
Plano TX 75074
USA

Attn: Paul Ng

Re. : R TÜV-Mark Approval

Type of Equipment : Switching Power Supply Unit
Model Designation : See Certificate
Certificate No. : R 72202278 0001
File No. : 30983193 300
Engineer/Contact : James Howell
Standard(s) : EN 62368-1:2014+A11

Dear Mr. Ng,

The above referenced technical equipment has been tested and found to be in accordance with the listed test requirement(s). Enclosed please find your TUV Rheinland EC-Type-Approval Certificate No. R 72202278 0001.

Your product is subject to annual factory follow-up inspections as well as annual certificate (\$87.00 per point) and factory registration fees (\$262 per factory).

Call the TUV hotline at 1-TUV-Rheinland (1-888-743-4652) to get answers for all your compliance needs.

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

Sincerely yours,
Certification Body

Dipl.-Ing. M. Glagla

Enclosure

TUV Rheinland
of North America, Inc.
San Francisco Office

1279 Quarry Lane
Suite A
Pleasanton, CA 94566

Tel 925-249-9123
Fax 925-249-9124
Mail info@us.tuv.com

North American Headquarters

12 Commerce Road
Newtown, CT 06470

Tel 203-426-0888
Fax 203-426-4009
Toll Free TÜV-RHEINLAND
Web www.tuv.com

Member of
TÜV Rheinland Group

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 72202278

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*
Paul Ng

Unser Zeichen *Our Reference*
-JH-30983193 300

Ausstellungsdatum *Date of Issue*
07.07.2020 (day/mo/yr)

Genehmigungsinhaber *License Holder*
ABB Power Electronics
601 Shiloh Rd.
Plano TX 75074
USA

Fertigungsstätte *Manufacturing Plant*
Lineage Power China Co., Ltd.
1353 Chengqiao Road
Fengpu Industrial Park
Fengxian
201401 Shanghai
P.R. China

Prüfzeichen *Test Mark*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111226238

Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Switching Power Supply Switching Power Supply Unit

Model Designation:

CAR2548FPabcde, CAR2548TNabcde

{a = B, blank; b = C, blank; c = A, blank;

d = 5, blank; e = -Z, -Z01A, -Y, -Y01A, blank;

a,b,c,d,e not safety-relevant;

Trademark: GE)

Rated Voltage: AC 100-240V, 47-63Hz or 50/60Hz

AC 200-240V, 47-63Hz or 50/60Hz

Rated Current: 16A

Protection Class: I

Output Ratings DC: see page 2

Rated Ambient Temperature: 50°C max.

contd.

7

ANLAGE (Appendix): 1, 1-12

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.

Zertifizierungsstelle

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

Dipl.-Ing. M. Glagla

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 72202278

Blatt *Sheet*
0002

Ihr Zeichen *Client Reference*
Paul Ng

Unser Zeichen *Our Reference*
-JH-30983193 300

Ausstellungsdatum *Date of Issue*
07.07.2020 (day/mo/yr)

Genehmigungsinhaber *License Holder*
ABB Power Electronics
601 Shiloh Rd.
Plano TX 75074
USA

Fertigungsstätte *Manufacturing Plant*
Lineage Power Matamoros, S.A. de C.V.
Poniente 2 No. 3 entre Norte
7 y Limite del, Fraccionamiento
Ciudad Industrial (CIMA)
Matamoros Tamaulipas
México CP. 87499
MEXICO

Prüfzeichen *Test Mark*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111226238

Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11

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

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

Switching Power Supply Switching Power Supply Unit [®]

contd.

Output Ratings DC:

- 1) 48V or 48,5V/52A max.; optional 3,3Vsb/1A or 5Vsb/1A;
2500W max. (AC 180-264V) or 1300W max. (AC 90-180V)
- 2) -54V/46,25A max.; optional 3,3Vsb/1A or 5Vsb/1A;
2500W max. (AC 180-264V) or 1300W max. (AC 90-180V)

Additional Manufacturing Plant: see above (K2003700)

Special Remarks: Evaluated for use up to 4000m above sea level. To be installed according to the licensee's installation instructions. Replaces Certificate R72201219.

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.

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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

Dipl.-Ing. M. Glagla

Product Safety and Quality
Electrical Services



November 17, 2021

Attn.: Mr. Andy Huang
ABB Power Electronics
601 Shiloh Rd.
Plano, TX 75074, USA

Project Number: 0234179901
TUV File Number: 30983193.301
Type of Equipment: Switching Power Supply
Subject: Update CDF

Dear Mr. Huang

We have completed our work under project 0234179901 and hereby approve the construction covering the listed alternate components under TUV File 30983193.301

- Add Alternates: Approved Relay K1. See CDF items 27a, 27b, and 27c for details.
- Updated standard for item 27. See CDF item 27 Bold for details.

Our approval of your product remains valid. Please keep this documentation for reference purposes.

Thank you and we appreciate your business, if we can be any further assistance, please do not hesitate to call us.

Sincerely,

Reviewed by:

James Howell
Test Engineer Senior
Electrical - Product Safety
Email: jhowell@us.tuv.com

Michael White
Test Engineer Senior
Electrical - Product Safety

TUV Rheinland of North America, Inc.
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