



Ref. Certif. No.

JPTUV-130998

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

**CB TEST CERTIFICATE**

Product

SWITCHING POWER SUPPLY

Name and address of the applicant

Delta Electronics, Inc.  
3, Tungyuan Road,  
Chungli Industrial Zone, Taoyuan City 32063 Taiwan

Name and address of the manufacturer

Delta Electronics, Inc.  
3, Tungyuan Road,  
Chungli Industrial Zone, Taoyuan City 32063 Taiwan

Name and address of the factory

See additional page(s)

Ratings and principal characteristics

Input : AC 100-240V; 1.5A; 50-60Hz; Class I  
Output: 1) DC 12V; 10A  
2) DC 24V; 5A  
3) DC 48V; 2.5A

Trademark (if any)

Trademark of Delta Electronics, Inc.

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

1) DRF-12V120W1GBAX1X2, DRF-120Z12V1GBX1X2X3  
2) DRF-24V120W1GBAX1X2, DRF-120Z24V1GBX1X2X3  
3) DRF-48V120W1GBAX1X2, DRF-120Z48V1GBX1X2X3  
(X1, X2, X3 can be any alphanumeric character or blank)

Additional information (if necessary may also be reported on page 2)

Additionally evaluated to EN 62368-1:2014+A11:2017  
Additionally evaluated to BS EN 62368-1:2014+A11:2017  
For model differences, refer to the test report.

A sample of the product was tested and found to be in conformity with

IEC 62368-1:2014  
See Test Report for National Differences

As shown in the Test Report Ref. No. which forms part of this Certificate

CN21XSRW 001

This CB Test Certificate is issued by the National Certification Body



**TÜVRheinland**®

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Mail: info@jpn.tuv.com  
Web : www.tuv.com

Date: 2021-12-27

Signature:

Frank C. Y. Sun

1. Delta Electronics (Jiangsu) Ltd.  
215200, No.1688, Jiangxing East Road,  
Wujiang Economic and Technological  
Development Zone  
Suzhou City, Jiangsu Province, P.R. China
2. Delta Electronics India Private  
Limited-SEZ Unit  
Delta SEZ Notified at SY No. 16/1B2B  
Part & 16/1B2A Part Plot No.1, Industrial Park,  
Kurubarapalli Village Krishnagiri Dist, Tamil Nadu, 635115, India
3. Delta Electronics (Thailand) Public  
Co., Ltd.  
111/6 Moo 9, Wellgrow Industrial Estate,  
Bangna-Trad Road, Tambol Bangwua,  
Amphur Bangpakong, Chachoengsao 24180, Thailand
4. Delta Electronics (Thailand) Public  
Co., Ltd.  
909 Soi 9 Moo 4, Bangpoo Industrial  
Estate (E.P.Z.), Pattana 1 Road,  
Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand
5. Delta Electronics (Dongguan) Co., Ltd.  
No.33, Pantao Road, Shijie Town,  
Dongguan, Guangdong 523308,  
P.R. China
6. Delta Electronics (Dongguan) Co., Ltd.  
Southwest Branch  
No.33, Pantao Road, Shijie Town,  
Dongguan, Guangdong 523308,  
P.R. China

**Additional information (if necessary)**

Report Ref. No. : CN21XSRW 001

Date: 2021-12-27

Signature:



Frank C. Y. Sun



Ref. Certif. No.

JPTUV-130043

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

**CB TEST CERTIFICATE**

Product	SWITCHING POWER SUPPLY
Name and address of the applicant	Delta Electronics, Inc. 3, Tungyuan Road, Chungli Industrial Zone, Taoyuan City 32063 Taiwan
Name and address of the manufacturer	Delta Electronics, Inc. 3, Tungyuan Road, Chungli Industrial Zone, Taoyuan City 32063 Taiwan
Name and address of the factory	See additional page(s)
Ratings and principal characteristics	Input : AC 100-240V; 1.5A; 50-60Hz; Class I Output: 1) DC 12V; 10A 2) DC 24V; 5A 3) DC 48V; 2.5A
Trademark (if any)	Trademark of Delta Electronics, Inc.
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	1) DRF-12V120W1GBAX1X2, DRF-120Z12V1GBX1X2X3 2) DRF-24V120W1GBAX1X2, DRF-120Z24V1GBX1X2X3 3) DRF-48V120W1GBAX1X2, DRF-120Z48V1GBX1X2X3 (X1, X2, X3 can be any alphanumeric character or blank)
Additional information (if necessary may also be reported on page 2)	Additionally evaluated to EN IEC 62368-1:2020+A11:2020 Additionally evaluated to BS EN IEC 62368-1:2020+A11:2020 For model differences, refer to the test report.
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018 See Test Report for National Differences
As shown in the Test Report Ref. No. which forms part of this Certificate	CN21UT46 001

This CB Test Certificate is issued by the National Certification Body



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Web : www.tuv.com

Date: 2021-12-13

Signature:

Dipl.-Ing. Th. Illing

1. Delta Electronics (Jiangsu) Ltd.  
215200, No.1688, Jiangxing East Road,  
Wujiang Economic and Technological  
Development Zone  
Suzhou City, Jiangsu Province, P.R. China
2. Delta Electronics India Private  
Limited-SEZ Unit  
Delta SEZ Notified at SY No. 16/1B2B  
Part & 16/1B2A Part Plot No.1, Industrial Park,  
Kurubarapalli Village Krishnagiri Dist, Tamil Nadu, 635115, India
3. Delta Electronics (Thailand) Public  
Co., Ltd.  
111/6 Moo 9, Wellgrow Industrial Estate,  
Bangna-Trad Road, Tambol Bangwua,  
Amphur Bangpakong, Chachoengsao 24180, Thailand
4. Delta Electronics (Thailand) Public  
Co., Ltd.  
909 Soi 9 Moo 4, Bangpoo Industrial  
Estate (E.P.Z.), Pattana 1 Road,  
Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand
5. Delta Electronics (Dongguan) Co., Ltd.  
No.33, Pantao Road, Shijie Town,  
Dongguan, Guangdong 523308,  
P.R. China
6. Delta Electronics (Dongguan) Co., Ltd.  
Southwest Branch  
No.33, Pantao Road, Shijie Town,  
Dongguan, Guangdong 523308,  
P.R. China

**Additional information (if necessary)**

Report Ref. No. : CN21UT46 001



Date: 2021-12-13

Signature:

Dipl.-Ing. Th. Illing



Ref. Certif. No.

**DK-127123-UL**

**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME**

**CB TEST CERTIFICATE**

Product

Switching Power Supply

Name and address of the applicant

DELTA ELECTRONICS INC  
3 Tungyuan Road, Chungli Industrial Zone, Taoyuan City 32063  
Taiwan

Name and address of the manufacturer

DELTA ELECTRONICS INC  
3 Tungyuan Road, Chungli Industrial Zone, Taoyuan City 32063  
Taiwan

Name and address of the factory

Delta Electronics (Thailand) Public Company Limited  
111/6 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road,  
Tambol Bangwua, Amphur Bangpakong Chachoengsao 24180  
Thailand

Note: When more than one factory, please report on page 2

[Additional Information on page 2](#)

Ratings and principal characteristics

model DRF-120Z12V1GBX1X2X3; DRF-12V120W1GBAX1X2  
Input: 100-240Vac, 1.5A, 50-60Hz  
Output: DC 12V, 10A

[Additional Information on page 2](#)

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

DRF-120Z12V1GBX1X2X3, DRF-120Z24V1GBX1X2X3,  
DRF-120Z48V1GBX1X2X3, (Where X1, X2, X3 can be any alphanumeric  
character or blank)

[Additional Information on page](#)

Additional information (if necessary may also be reported on page 2)

**Additionally evaluated to:**  
EN IEC 61010-2-201:2018, EN 61010-1:2010, EN 61010-1:2010/A1:2019  
National Differences specified in the CB Test Report.

[Additional Information on page 2](#)

A sample of the product was tested and found to be in conformity with

IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016, IEC 61010-2-201:2017

As shown in the Test Report Ref. No. which forms part of this Certificate

E338991-D1018-1/A0/C0-CB issued on 2022-04-28

This CB Test Certificate is issued by the National Certification Body



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2022-05-06

Signature:   
Jan-Erik Storgaard



Ref. Certif. No.

**DK-127123-UL**

**Factory(ies):**

Delta Electronics (Dongguan) Co., Ltd.  
No 33 Pantao Road Shijie Town Dongguan, Guangdong, 523308  
China

Delta Electronics (Jiangsu) Ltd.  
No.1688, Jiangxing East Road, Wujiang Economic and Technological Development Zone, Suzhou City, Jiangsu Province 215200  
China

Delta Electronics India Private Limited-SEZ Unit  
Delta SEZ Notified at SY No 16/1B2B Part & 16/1B2A Part Plot No1 Industrial Park  
Kurubarapalli Village Krishnagiri Dist, Tamil Nadu 635115  
India

DELTA ELECTRONICS (WUHU) LTD.  
No. 138, Jiuhua North Road, LongShan Street, Economic technical Development Area Wuhu City, Anhui Province 241008  
China

Delta Electronics (Thailand) Public Co., Ltd.  
909 Soi 9 Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road, Tambol Phraksa, Amphur Muang, Samutprakarn 24180  
Thailand

Delta Electronics (Dongguan) Co., Ltd Southwest Branch  
No. 33 Pantao Road Shijie Town Dongguan Guangdong 523308  
China

**Additional Model Detail(s):**

DRF-12V120W1GBAX1X2, DRF-120Z12V1GBX1X2X3, DRF-24V120W1GBAX1X2,  
DRF-120Z24V1GBX1X2X3, DRF-48V120W1GBAX1X2, DRF-120Z48V1GBX1X2X3,  
(Where X1, X2, X3 can be any alphanumeric character or blank)

**Additional Ratings:**

model DRF-120Z24V1GBX1X2X3; DRF-24V120W1GBAX1X2  
Input: 100-240Vac, 1.5A, 50-60Hz  
Output: DC 24V, 5A

model DRF-120Z48V1GBX1X2X3; DRF-48V120W1GBX1X2  
Input: 100-240Vac, 1.5A, 50-60Hz  
Output: DC 48V, 2.5A

**Additional information (if necessary)**



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2022-05-06

Signature:

Jan-Erik Storgaard