



Ref. Certif. No.

JPTUV-177309

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

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

See additional page(s) for the listing of 8 factories

Ratings and principal characteristics

Input : AC 100-240V; 10.7A; 50-60Hz; Class I
Output: 1)2)5)6) DC 24V; 40A
3)4)7)8) DC 48V; 20A

Trademark / Brand (if any)

Trademark of Delta Electronics, Inc.

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

1) DRF-24V960W1PBx1x2, 2) DRF-960Z24V1PBx1x2x3,
3) DRF-48V960W1PBx1x2, 4) DRF-960Z48V1PBx1x2x3,
5) DRL-24V960W1ENx1x2, 6) DRL-960Z24V1ENx1x2x3,
7) DRL-48V960W1ENx1x2, 8) DRL-960Z48V1ENx1x2x3
(x1, x2 and x3 can be A-Z, 0-9 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

CN25F7B3 001

This CB Test Certificate is issued by the National Certification Body



TÜV Rheinland Japan Ltd.
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Mail: info@jpn.tuv.com

Date: 2025-08-25

Signature: Dipl.-Ing. Th. Illing

10/061SMD 2024-12 rke-simplified

Factories :

1. Delta Electronics (Dongguan) Co., Ltd.
No. 33, Pantao Road, Shijie Town Dongguan 523308 Guangdong
P.R. China
2. Delta Electronics (Dongguan) Co., Ltd. Southwest Branch
No.33, Pantao Road, Shijie Town, Dongguan, Guangdong 523308,
P.R. China
3. Delta Electronics (Jiangsu) Ltd.
215200, No.1688, Jiangxing East Road, Wujiang Economic and Technological
Development Zone Suzhou City, Jiangsu Province
P.R. China
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 (Thailand) Public Co., Ltd.
111/6 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road, Tambol Bangwua,
Amphur Bangpakong, Chachoengsao 24180
Thailand
6. Delta Electronics India Private Limited SEZ Unit
SY No.16/1b2b(Part) & 16/1b2a(Part), Plot No.1, Industrial Park, Kurubarapalli
Village, Krishnagiri, Tamilnadu, 635115
India
7. Delta Electronics (Chongqing) Co.,LTD.
Building 10, No.1, Jiangxia Road, Nan'an District, Chongqing,
P.R. China
8. Delta Electronics (Chongqing) Co.,LTD.
3rd & 4th Floor, Plant 2. Mengxun Technology Park. No.6 Jidianyizhi Road,
Chayuan, Nan'an District, Chongqing, 401336,
P.R. China

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

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

See additional page(s) for the listing of 8 factories

Ratings and principal characteristics

Input : AC 100-240V; 10.7A; 50-60Hz; Class I
Output: 1)2)5)6) DC 24V; 40A
3)4)7)8) DC 48V; 20A

Trademark / Brand (if any)

Trademark of Delta Electronics, Inc.

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

1) DRF-24V960W1PBx1x2, 2) DRF-960Z24V1PBx1x2x3,
3) DRF-48V960W1PBx1x2, 4) DRF-960Z48V1PBx1x2x3,
5) DRL-24V960W1ENx1x2, 6) DRL-960Z24V1ENx1x2x3,
7) DRL-48V960W1ENx1x2, 8) DRL-960Z48V1ENx1x2x3
(x1, x2 and x3 can be A-Z, 0-9 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.
Re-issue of JPTUV-176957-A1 dated 2025-08-28,
due to non-technical change.

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

CN25F55K 002

This CB Test Certificate is issued by the National Certification Body



TÜV Rheinland Japan Ltd.
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Mail: info@jpn.tuv.com



Date: 2025-09-15

Signature: Dipl.-Ing. F. Staelzel

Factories :

1. Delta Electronics (Dongguan) Co., Ltd.
No. 33, Pantao Road, Shijie Town Dongguan 523308 Guangdong
P.R. China
2. Delta Electronics (Dongguan) Co., Ltd. Southwest Branch
No.33, Pantao Road, Shijie Town, Dongguan, Guangdong 523308,
P.R. China
3. Delta Electronics (Jiangsu) Ltd.
215200, No.1688, Jiangxing East Road, Wujiang Economic and Technological
Development Zone Suzhou City, Jiangsu Province
P.R. China
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 (Thailand) Public Co., Ltd.
111/6 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road, Tambol Bangwua,
Amphur Bangpakong, Chachoengsao 24180
Thailand
6. Delta Electronics India Private Limited SEZ Unit
SY No.16/1b2b(Part) & 16/1b2a(Part), Plot No.1, Industrial Park, Kurubarapalli
Village, Krishnagiri, Tamilnadu, 635115
India
7. Delta Electronics (Chongqing) Co.,LTD.
3rd & 4th Floor, Plant 2. Mengxun Technology Park. No.6 Jidianyizhi Road,
Chayuan, Nan'an District, Chongqing, 401336,
P.R. China
8. Delta Electronics (Chongqing) Co.,LTD.
Building 10, No.1, Jiangxia Road, Nan'an District, Chongqing,
P.R. China



Ref. Certif. No.

DK-171510-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 CO LTD 909 Soi 9 Moo 4 Bangpoo Industrial Estate (E.P.Z.) Pattana 1 Road Tambol Phraksa Amphur Muang, Samutprakarn, 10280 Thailand <input checked="" type="checkbox"/> Additional Information on page 2
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	Model DRF-24V960W1PBAX1x2: Input: 100-240VAC, 10.7A, 50-60Hz Output: 24dc, 40A (960Wmax.) <input checked="" type="checkbox"/> Additional Information on page 2
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	DRF-24V960W1PBAX1x2, DRF-960Z24V1PBx1x2x3, DRF-48V960W1PBAX1x2, DRF-960Z48V1PBx1x2x3, DRL-24V960W1ENx1x2 <input checked="" type="checkbox"/> Additional Information on page 2
Additional information (if necessary may also be reported on page 2)	National Differences: EU Group Differences, CA, US <input checked="" type="checkbox"/> 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-D1041-1/A0/C0-CB issued on 2025-08-29

This CB Test Certificate is issued by the National Certification Body



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

For full legal entity names see www.ul.com/ncbnames

Date: 2025-10-01

Signature:


Thomas Wilson



Ref. Certif. No.

DK-171510-UL

Factory(ies):

DELTA ELECTRONICS (JIANGSU) LTD.
No 1688 Jiangxing East Road
Wujiang Economic and Technological Development Zone Suzhou City, Jiangsu, 215200
China

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

Delta Electronics India Private Limited SEZ Unit
SY No 16/1b2b(Part) & 16/1b2a(Part)
Plot No 1 Industrial Park Kurubarapalli Village Krishnagiri, Tamil Nadu 635115
India

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

Delta Electronics (Wuhu) Ltd
No. 138 Jiuhoa North Road Longshan Street
Economic Technical Development Area Wuhu City, Anhui Province, 241009
China

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

Additional Model Detail(s):

DRF-24V960W1PBAX1x2, DRF-960Z24V1PBx1x2x3, DRF-48V960W1PBAX1x2, DRF-960Z48V1PBx1x2x3,
DRL-24V960W1ENx1x2, DRL-960Z24V1ENx1x2x3, DRL-48V960W1ENx1x2, DRL-960Z48V1ENx1x2x3, (x1, x2 and x3 can be A-
Z, 0-9 or blank)

Additional Ratings:

Model DRF-24V960W1PBAX1x2, DRF-960Z24V1PBx1x2x3,
DRL-24V960W1ENx1x2, DRL-960Z24V1ENx1x2x3
Input: 100-240VAC, 10.7A, 50-60Hz
Output: 24dc, 40A (960Wmax.)

Model DRF-48V960W1PBAX1x2, DRF-960Z48V1PBx1x2x3,
DRL-48V960W1ENx1x2, DRL-960Z48V1ENx1x2x3
Input: 100-240VAC, 10.7A, 50-60Hz
Output: 48Vdc, 20A (960Wmax.)

Additionally evaluated to:

EN 61010-1:2010, EN 61010-1:2010/A1:2019, EN IEC 61010-2-201:2018

Additional information (if necessary)



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

For full legal entity names see www.ul.com/ncbnames

Date: 2025-10-01

Signature:

Thomas Wilson



Ref. Certif. No.

DE 2-045502

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; 10.7A; 50-60Hz; Class I
Non-inherently short-circuit proof transformer
Output: 1) DC 24V; 40A
2) DC 48V; 20A

Trademark (if any)

Trademark of Delta Electronics, Inc.

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

- 1) DRF-24V960W1PBAx1x2, DRF-960Z24V1PBx1x2x3,
DRL-24V960W1ENx1x2, DRL-960Z24V1ENx1x2x3
- 2) DRF-48V960W1PBAx1x2, DRF-960Z48V1PBx1x2x3,
DRL-48V960W1ENx1x2, DRL-960Z48V1ENx1x2x3
(x1, x2 and x3 can be A-Z, 0-9 or blank)

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

Model differ in model designation, output ratings and components; for details refer to test report.

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

IEC 61558-2-16:2021
IEC 61558-1:2017
See Test Report for National Differences

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

CN252IP9 001

This CB Test Certificate is issued by the National Certification Body



TÜV Rheinland LGA Products GmbH
Tillystr. 2, 90431 Nürnberg, Germany
Phone + 49 221 806-1371
Fax + 49 221 806-3935
Mail: cert-validity@de.tuv.com
Web : www.tuv.com

Date: 2025-10-09

Signature:

Dipl.-Ing. Th. Illing

1. Delta Electronics (Dongguan) Co., Ltd.
No. 33, Pantao Road, Shijie Town
Dongguan
523308 Guangdong
P.R. China
2. Delta Electronics (Dongguan) Co., Ltd.
Southwest Branch
No.33, Pantao Road, Shijie Town,
Dongguan, Guangdong 523308,
P.R. China
3. Delta Electronics (Jiangsu) Ltd.
215200, No.1688, Jiangxing East Road,
Wujiang Economic and Technological
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Suzhou City, Jiangsu Province, P.R. China
4. Delta Electronics (Thailand) Public
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909 Soi 9 Moo 4, Bangpoo Industrial
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Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand
5. Delta Electronics (Thailand) Public
Co., Ltd.
111/6 Moo 9, Wellgrow Industrial Estate,
Bangna-Trad Road, Tambol Bangwua,
Amphur Bangpakong, Chachoengsao 24180, Thailand
6. Delta Electronics India Private Limited
SEZ Unit
SY No.16/1b2b(Part) & 16/1b2a(Part),
Plot No.1, Industrial Park,
Kurubarapalli Village, Krishnagiri, Tamilnadu, 635115, India
7. Delta Electronics (Chongqing) Co., Ltd.
No. 1 Meidu Road, Yinglong Town, Nan'an District,
401336 Chongqing
P.R. China

Additional information (if necessary)

Report Ref. No. : CN252IP9 001



Date: 2025-10-09

Signature:

Dipl.-Ing. Th. Illing