

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; 5.6A; 50-60Hz; Class I Output: 1)2)5)6) DC 24V; 20A, 3)4)7)8) DC 48V; 10A
Trademark (if any)	Trademark of Delta Electronics, Inc.
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	1) DRL-24V480W1ENx1x2, 2) DRL-480Z24V1ENx1x2x3, 3) DRL-48V480W1ENx1x2, 4) DRL-480Z48V1ENx1x2x3, 5) DRF-24V480W1GBAx1x2, 6) DRF-480Z24V1GBx1x2x3, 7) DRF-48V480W1GBAx1x2, 8) DRF-480Z48V1GBx1x2x3 (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	CN211C62 001

This CB Test Certificate is issued by the National Certification Body



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

Date: 2022-03-11

Signature:

Dipl.-Ing. Th. Illing

1. Delta Electronics (Dongguan) Co., Ltd.
No.33, Pantao Road, Shijie Town,
Dongguan, Guangdong 523308,
P.R. China
2. Delta Electronics (Dongguan) Co., Ltd.
Southwest Branch
No.33, Pantao Road, Shijie Town,
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P.R. China
3. DELTA ELECTRONICS (WUHU) LTD.
No. 138, Jiuhua North Road
LongShan Street
Economic-technical Development Area
Wuhu City, Anhui Province, P.R. China
4. Delta Electronics (Jiangsu) Ltd.
215200, No.1688, Jiangxing East Road,
Wujiang Economic and Technological
Development Zone
Suzhou City, Jiangsu Province, P.R. China
5. Delta Electronics (Thailand) Public
Co., Ltd.
909 Soi 9 Moo 4, Bangpoo Industrial
Estate (E.P.Z.), Pattana 1 Road,
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6. Delta Electronics (Thailand) Public
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7. 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

Additional information (if necessary)

Report Ref. No. : CN211C62 001



Date: 2022-03-11

Signature:

Dipl.-Ing. Th. Illing



Ref. Certif. No.

JPTUV-132402

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; 5.6A; 50-60Hz; Class I Output: 1)2)5)6) DC 24V; 20A, 3)4)7)8) DC 48V; 10A
Trademark (if any)	Trademark of Delta Electronics, Inc.
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	1) DRL-24V480W1ENx1x2, 2) DRL-480Z24V1ENx1x2x3, 3) DRL-48V480W1ENx1x2, 4) DRL-480Z48V1ENx1x2x3, 5) DRF-24V480W1GBAx1x2, 6) DRF-480Z24V1GBx1x2x3, 7) DRF-48V480W1GBAx1x2, 8) DRF-480Z48V1GBx1x2x3 (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	CN21W755 001

This CB Test Certificate is issued by the National Certification Body



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Date: 2022-02-18

Signature:

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3. DELTA ELECTRONICS (WUHU) LTD.
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4. Delta Electronics (Jiangsu) Ltd.
215200, No.1688, Jiangxing East Road,
Wujiang Economic and Technological
Development Zone
Suzhou City, Jiangsu Province, P.R. China
5. Delta Electronics (Thailand) Public
Co., Ltd.
909 Soi 9 Moo 4, Bangpoo Industrial
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Tambol Phraksa, Amphur Muang, Samutprakarn 10280, Thailand
6. Delta Electronics (Thailand) Public
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7. 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

Additional information (if necessary)

Report Ref. No. : CN21W755 001



Date: 2022-02-18

Signature:

Dipl.-Ing. Th. Illing



Ref. Certif. No.

JPTUV-132504

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; 5.6A; 50-60Hz; Class I
Output: 1)2)5)6) DC 24V; 20A, 3)4)7)8) DC 48V; 10A

Trademark (if any)

Trademark of Delta Electronics, Inc.

Customer's Testing Facility (CTF) Stage used

N/A

Model / Type Ref.

1) DRL-24V480W1ENx1x2, 2) DRL-480Z24V1ENx1x2x3,
3) DRL-48V480W1ENx1x2, 4) DRL-480Z48V1ENx1x2x3,
5) DRF-24V480W1GBAx1x2, 6) DRF-480Z24V1GBx1x2x3,
7) DRF-48V480W1GBAx1x2, 8) DRF-480Z48V1GBx1x2x3
(x1, x2, x3 can be any alphanumeric character or blank)

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

For model differences, refer to the test report.

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

IEC 60950-1:2005+A1+A2
See Test Report for National Differences

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

CN21TR11 001

This CB Test Certificate is issued by the National Certification Body



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Date: 2022-02-25

Signature:

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Dongguan, Guangdong 523308,
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3. DELTA ELECTRONICS (WUHU) LTD.
No. 138, Jiuhua North Road
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111/6 Moo 9, Wellgrow Industrial Estate,
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635115, India

Additional information (if necessary)

Report Ref. No. : CN21TR11 001



Date: 2022-02-25

Signature:

Dipl.-Ing. Th. Illing



Ref. Certif. No.

DK-126418-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	Input: 100-240VAC, 5.6A, 50-60Hz <input checked="" type="checkbox"/> Additional Information on page 2
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	DRL-24V480W1ENx1x2, DRF-480Z48V1GBx1x2x3, DRL-48V480W1ENx1x2, DRF-24V480W1GBAx1x2, DRF-48V480W1GBAx1x2 <input checked="" type="checkbox"/> Additional Information on page 2
Additional information (if necessary may also be reported on page 2)	Additionally evaluated to: EN 61010-1:2010/A1:2019, EN 61010-1:2010, EN IEC 61010-2-201:2018 National Differences specified in the CB Test Report. <input 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-D1016-1/A0/C0-CB issued on 2022-04-01

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

Date: 2022-04-15

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-126418-UL

Factory(ies):

Delta Electronics (Jiangsu) Ltd
No.1688, Jiangxing East Road, Wujiang Economic and Technological Development Zone,Wujiang District, suzhou, jiangsu,
215000 China

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

Delta Electronics (Thailand) Public Company Limited
111/6 Moo 9, Wellgrow Industrial Estate, Bangna-Trad Road, Tambol Bangwua, Amphur Bangpakong Chachoengsao 24180
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Delta Electronics (Dongguan) Co., Ltd Southwest Branch
No 33 Pantao Road, Shijie Town Dongguan, Guangdong, 523308
China

Additional Model Detail(s):

DRL-24V480W1ENx1x2, DRL-48V480W1ENx1x2, DRF-24V480W1GBAx1x2, DRF-48V480W1GBAx1x2, (x1, x2 can be any alphanumeric character or blank).

DRF-480Z48V1GBx1x2x3, DRL-480Z24V1ENx1x2x3, DRL-480Z48V1ENx1x2x3, DRF-480Z24V1GBx1x2x3, (x1, x2, x3 can be any alphanumeric character or blank).

Additional Ratings:

Output: Max. Output Power: 480 W

DC 24V, 20A for model DRL-24V480W1ENx1x2, DRF-24V480W1GBAx1x2, DRL-480Z24V1ENx1x2x3, DRF-480Z24V1GBx1x2x3

DC 48V, 10A for model DRL-48V480W1ENx1x2, DRF-48V480W1GBAx1x2, DRL-480Z48V1ENx1x2x3, DRF-480Z48V1GBx1x2x3

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

Date: 2022-04-15

Signature:

Jan-Erik Storgaard