

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

**CB TEST CERTIFICATE**

|   |   |
|---|---|
| Product   | AC/DC Adapter   |
| Name and address of the applicant   | DELTA ELECTRONICS INC<br>3 TUNGYUAN RD, CHUNGLI INDUSTRIAL ZONE, TAOYUAN COUNTY 32063 TAIWAN  |
| Name and address of the manufacturer  | DELTA ELECTRONICS INC<br>3 TUNGYUAN RD, CHUNGLI INDUSTRIAL ZONE, TAOYUAN COUNTY 32063 TAIWAN  |
| Name and address of the factory<br><i>Note: When more than one factory, please report on page 2</i> | DELTA ELECTONICS (JIANGSU) LTD.<br>NO. 1688, JIANGXING EAST ROAD, WUJIANG ECONOMIC DEVELOPMENT ZONE, WUJIANG CITY, JIANGSU PROVINCE, 215200 CHINA<br><input checked="" type="checkbox"/> Additional Information on page 2 |
| Ratings and principal characteristics   | Input rating: 100 - 240Vac; 1.5-0.75A; 50-60 Hz<br>Output rating:<br>MDS-090AAS15 B, MDS-090AAS15 F:15Vdc, 6A<br>MDS-090AAS19 B, MDS-090AAS19 F:19Vdc, 4.74A<br>MDS-090AAS24 B, MDS-090AAS24 F:24Vdc, 3.75A               |
| Trademark (if any)  | DELTA ELECTRONICS, INC.<br>  |
| Type of Customer's Testing Facility (CTF) Stage used  | CTF Stage 2   |
| Model / Type Ref.   | MDS-090AAS15 B, MDS-090AAS15 F, MDS-090AAS19 B, MDS-090AAS19 F, MDS-090AAS24 B, MDS-090AAS24 F  |
| Additional information (if necessary may also be reported on page 2)                                | <input checked="" type="checkbox"/> Additional Information on page 2  |
| A sample of the product was tested and found to be in conformity with                               | IEC 60601-1:2005, IEC 60601-1:2005/AMD1:2012, IEC 60601-1-6:2010, IEC 60601-1-6:2010/AMD1:2013,   |
| As shown in the Test Report Ref. No. which forms part of this Certificate                           | E356265-D1015-1/A2/C0-CB issued on 2018-08-27   |

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

Date: 2018-08-30  
Original Issue Date: 2015-11-25

Signature:

  

Jan-Erik Storgaard

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



Ref. Certif. No.

**DK-50059-A2-UL**

Factories:

DELTA ELECTRONICS POWER (DONGGUAN) CO., LTD.  
DELTA INDUSTRIAL ESTATE, SHIJIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE 523308,  
CHINA

DELTA ELECTRONICS (THAILAND) PUBLIC CO., LTD.  
909 SOI 9 MOO 4, BANGPOO INDUSTRIAL ESTATE (E.P.Z.), PATTANA 1 RD., TAMBOL PHRAKSA, AMPHUR  
MUANG, SAMUTPRAKARN 10280,  
THAILAND

Additional Information:

Additionally evaluated to EN 60601-1:2006/ A1:2013/ A12:2014; National Differences specified in the CB Test Report.

The original report was modified to include the following changes/additions:

- Added two alternate enclosure material in Critical Components.

**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/nbcnames](http://www.ul.com/nbcnames)

Date: 2018-08-30  
Original Issue Date: 2015-11-25

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

**DK-94221-UL**

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

**CB TEST CERTIFICATE**

Product

AC/DC ADAPTER

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 (JIANGSU) LTD.  
215200, NO.1688, JIANGXING EAST ROAD, WUJIANG  
ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE,  
SUZHOU CITY, JIANGSU PROVINCE,  
P. R. CHINA

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

Additional Information on page 2

Ratings and principal characteristics

See Page 2

Trademark / Brand (if any)



Type of Customer's Testing Facility (CTF) Stage used

CTF Stage 1

Model / Type Ref.

MDS-090AAS15 B, MDS-090AAS15 F, MDS-090AAS19 B,  
MDS-090AAS19 F, MDS-090AAS24 B, MDS-090AAS24 F

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

Additionally evaluated to EN 62368-1:2014/A11:2017. 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 62368-1:2014

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

E131881-A6099-CB-1 issued on 2020-03-11

This CB Test Certificate is issued by the National Certification Body



- UL (US), 333 Pflugsten 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

Date: 2020-03-11

Signature:

Jan-Erik Storgaard

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



Ref. Certif. No.

**DK-94221-UL**

**Factories:**

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

**Ratings:**

Input: 100-240V~, 1.5-0.75A, 50-60Hz  
For Models MDS-090AAS24 B, MDS-090AAS24 F  
DC Output: 24V, 3.75A;  
For Models MDS-090AAS19 B, MDS-090AAS19 F  
DC Output: 19V, 4.74A;  
For Models MDS-090AAS15 B, MDS-090AAS15 F  
DC Output: 15V, 6A

**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/nbnames](http://www.ul.com/nbnames)

Date: 2020-03-11

Signature:   
Jan-Erik Storgaard



Ref. Certif. No.

DK-133028-UL

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

CB TEST CERTIFICATE

|   |  |
|---|--|
| Product   | AC/DC ADAPTER  |
| Name and address of the applicant   | DELTA ELECTRONICS INC<br>3 TUNGYUAN ROAD CHUNGLI INDUSTRIAL ZONE TAOYUAN CITY 32063<br>TAIWAN  |
| Name and address of the manufacturer                                      | DELTA ELECTRONICS INC<br>3 TUNGYUAN ROAD CHUNGLI INDUSTRIAL ZONE TAOYUAN CITY 32063<br>TAIWAN  |
| Name and address of the factory   | Delta Electronics (Thailand) Public Co., Ltd.<br>909 Soi 9 Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Road,<br>Tambol Phraksa, Amphur Muang, Samutprakarn 10280,<br>Thailand                       |
| Note: When more than one factory, please report on page 2                 | <input checked="" type="checkbox"/> Additional Information on page 2   |
| Ratings and principal characteristics                                     | Input: 100-240V~, 1.5-0.75A, 50-60Hz<br><input checked="" type="checkbox"/> Additional Information on page 2   |
| Trademark / Brand (if any)  | Delta<br>   |
| Customer's Testing Facility (CTF) Stage used                              | CTF Stage 1  |
| Model / Type Ref.   | MDS-090AAS24 B, MDS-090AAS19 B, MDS-090AAS15 B,<br>MDS-090AAS24 F, MDS-090AAS19 F, MDS-090AAS15 F  |
| Additional information (if necessary may also be reported on page 2)      | <b>Additionally evaluated to:</b><br>EN IEC 62368-1:2020, EN IEC 62368-1:2020/A11:2020<br>National Differences specified in the CB Test Report.<br><input type="checkbox"/> Additional Information on page 2 |
| A sample of the product was tested and found to be in conformity with     | IEC 62368-1:2018   |
| As shown in the Test Report Ref. No. which forms part of this Certificate | E131881-A6855-CB-1 issued on 2022-09-30  |

This CB Test Certificate is issued by the National Certification Body



- UL Solutions (US), 333 Pfingsten 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](http://www.ul.com/ncbnames)

Date: 2022-09-30

Signature:

  
Jan-Erik Storgaard



Ref. Certif. No.

**DK-133028-UL**

**Factory(ies):**

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

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

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

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 (Dongguan) Co., Ltd Southwest Branch  
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 No.1, Industrial Park, Kurubarapalli Village Krishnagiri Dist,  
Tamil Nadu, 635115,  
INDIA

**Additional Ratings:**

For Models MDS-090AAS24 B, MDS-090AAS24 F  
DC Output: 24V, 3.75A

For Models MDS-090AAS19 B, MDS-090AAS19 F  
DC Output: 19V, 4.74A

For Models MDS-090AAS15 B, MDS-090AAS15 F  
DC Output: 15V, 6A

**Additional information (if necessary)**



- UL Solutions (US), 333 Pflingsten 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](http://www.ul.com/ncbnames)

Date: 2022-09-30

Signature:

Jan-Erik Storgaard

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

## CB TEST CERTIFICATE

|   |   |
|---|---|
| Product   | AC/DC ADAPTER   |
| Name and address of the applicant   | DELTA ELECTRONICS INC<br>3 TUNGYUAN RD CHUNGLI INDUSTRIAL ZONE<br>TAOYUAN COUNTY 32063 TAIWAN   |
| Name and address of the manufacturer                                      | DELTA ELECTRONICS INC<br>3 TUNGYUAN RD CHUNGLI INDUSTRIAL ZONE<br>TAOYUAN COUNTY 32063 TAIWAN   |
| Name and address of the factory   | DELTA ELECTRONICS (THAILAND) PUBLIC CO., LTD.<br>909 SOI 9 MOO 4, BANGPOO INDUSTRIAL ESTATE (E.P.Z.),<br>PATTANA 1 RD., TAMBOL PHRAKSA, AMPHUR MUANG,<br>SAMUTPRAKARN 10280,<br>THAILAND.                     |
| <i>Note: When more than one factory, please report on page 2</i>          | <input checked="" type="checkbox"/> Additional Information on page 2  |
| Ratings and principal characteristics                                     | See Page 2  |
| Trademark (if any)  | Delta<br>   |
| Type of Customer's Testing Facility (CTF) Stage used                      | CTF Stage 1   |
| Model / Type Ref.   | MDS-090AAS24 B, MDS-090AAS19 B, MDS-090AAS15 B,<br>MDS-090AAS24 F, MDS-090AAS19 F, MDS-090AAS15 F   |
| Additional information (if necessary may also be reported on page 2)      | Additionally evaluated to EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/ A2:2013.; National Difference specified in the CB Test Report<br><input checked="" type="checkbox"/> Additional Information on page 2 |
| A sample of the product was tested and found to be in conformity with     | IEC 60950-1:2005/AMD1:2009, IEC 60950-1:2005/AMD2:2013,<br>IEC 60950-1:2005   |
| As shown in the Test Report Ref. No. which forms part of this Certificate | E131881-A1576-CB-2 issued on 2018-08-10   |

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: 2018-08-10  
Original Issue Date: 2015-11-06

Signature:

  
Jan-Erik Storgaard



Ref. Certif. No.

**DK-49617-M1-UL**

**Factories:**

DELTA ELECTRONICS POWER (DONGGUAN) CO., LTD.  
DELTA INDUSTRIAL ESTATE, SHIJIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE 523308  
CHINA

DELTA ELECTRONICS (JIANGSU) LTD.  
NO. 1688, JIANGXING EAST ROAD, WUJIANG ECONOMIC DEVELOPMENT ZONE, WUJIANG CITY, JIANGSU  
PROVINCE, 215200  
CHINA

**Ratings:**

Input: 100-240V~, 1.5-0.75A, 50-60Hz

For Models MDS-090AAS24 B, MDS-090AAS24 F  
DC Output: 24V, 3.75A;

For Models MDS-090AAS19 B, MDS-090AAS19 F  
DC Output: 19V, 4.74A;

For Models MDS-090AAS15 B, MDS-090AAS15 F  
DC Output: 15V, 6A

**Additional Information:**

The original report was modified to include the following changes/additions:

1. Add alternative sources (LOTTE, Type HN-1064I; Trinseo, Type CELEX 3600) of Enclosure for models MDS-090AAS24 B and MDS-090AAS24 F.

**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/nbcnames](http://www.ul.com/nbcnames)

Date: 2018-08-10

Original Issue Date: 2015-11-06

Signature:

Jan-Erik Storgaard