

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 (THAILAND) PUBLIC CO LTD 909 SOI 9, MOO 4,PATTANA 1RD BANGPOO INDUSTRIAL ESTATE (E P Z) TAMBOL PHRAKSA AMPHUR MUANG SAMUTPRAKARN 10280 THAILAND
Name and address of the manufacturer	DELTA ELECTRONICS (THAILAND) PUBLIC CO LTD 909 SOI 9, MOO 4,PATTANA 1RD BANGPOO INDUSTRIAL ESTATE (E P Z) TAMBOL PHRAKSA AMPHUR MUANG SAMUTPRAKARN 10280 THAILAND
Name and address of the factory	DELTA ELECTRONICS (THAILAND) PUBLIC CO LTD 909 SOI 9, MOO 4,PATTANA 1RD BANGPOO INDUSTRIAL ESTATE (E P Z) TAMBOL PHRAKSA AMPHUR MUANG SAMUTPRAKARN 10280 THAILAND
<i>Note: When more than one factory, please report on page 2</i>	<input type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	See Page 2
Trademark (if any)	DELTA 
Type of Customer's Testing Facility (CTF) Stage used	CTF Stage 1
Model / Type Ref.	IMA-X1000-Y-ZZZZZ See Page 2
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. <input type="checkbox"/> Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
As shown in the Test Report Ref. No. which forms part of this Certificate	E191395-A6162-CB-1 issued on 2019-09-17

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: 2019-09-17

Signature:



Jan-Erik Storgaard

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



Ref. Certif. No.

DK-87788-UL

Model Details:

IMA-X1000-Y-ZZZZZ where X can be letter C or S. Y can be any number from 12 thru 48, and Z can be any alphanumeric character or blank that have no impact on safety.

Ratings:

Input: 100-240 Vac, 12-5A, 50/60Hz
/ 120-300 Vdc, 9.5A max

Output for Model IMA-X1000-12-ZZZZZ:

12 Vdc, 84A max

5 Vdc, 2A max

Total power: 1018W max

Output for Model IMA-X1000-24-ZZZZZ:

24 Vdc, 42A max

5 Vdc, 2A max

Total power: 1018W max

Output for Model IMA-X1000-48-ZZZZZ:

48 Vdc, 21A max

5 Vdc, 2A max

Total power: 1018W max

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: 2019-09-17

Signature:

Jan-Erik Storgaard

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

CB TEST CERTIFICATE

Product	Switching Power Supply for Building In
Name and address of the applicant	DELTA ELECTRONICS (THAILAND) PUBLIC CO LTD 909 SOI 9, MOO 4,PATTANA 1RD BANGPOO INDUSTRIAL ESTATE (E P Z) TAMBOL PHRAKSA AMPHUR MUANG SAMUTPRAKARN 10280 THAILAND
Name and address of the manufacturer	DELTA ELECTRONICS (THAILAND) PUBLIC CO LTD 909 SOI 9, MOO 4,PATTANA 1RD BANGPOO INDUSTRIAL ESTATE (E P Z) TAMBOL PHRAKSA AMPHUR MUANG SAMUTPRAKARN 10280 THAILAND
Name and address of the factory <i>Note: When more than one factory, please report on page 2</i>	DELTA ELECTRONICS (THAILAND) PUBLIC CO LTD 909 SOI 9, MOO 4,PATTANA 1RD BANGPOO INDUSTRIAL ESTATE (E P Z) TAMBOL PHRAKSA AMPHUR MUANG SAMUTPRAKARN 10280 THAILAND <input type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	See Page 2
Trademark (if any)	
Type of Customer's Testing Facility (CTF) Stage used	CTF Stage 3
Model / Type Ref.	IMA-X1000-Y-ZZZZZ See Page 2
Additional information (if necessary may also be reported on page 2)	Reason for correction: Correct rating information <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(ed.3), IEC 60601-1(ed.3);am1
As shown in the Test Report Ref. No. which forms part of this Certificate	E325662-D1009-1/A0/C0-CB issued on 2017-12-01

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/ncbnamesDate: 2017-12-12
Original Issue Date: 2017-12-12

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-68856-M1-UL

Model Details:

IMA-X1000-Y-ZZZZZ where X can be letter C or S. Y can be either 12, 24 or 48 and Z can be any alphanumeric character or blank that have no impact on safety

Ratings:

AC Input: 100-240VAC, 12-5A, 50/60Hz

Total Output Power: 1018W max

Rated Output (Model IMA-X1000-12-ZZZZZ): 12VDC, 84A max. 5VDC, 2A max.

Rated Output (Model IMA-X1000-24-ZZZZZ): 24VDC, 42A max. 5VDC, 2A max.

Rated Output (Model IMA-X1000-48-ZZZZZ): 48VDC, 21A max. 5VDC, 2A max.

Additional Information:

Additionally evaluated to EN 60601-1:2006/A1:2013/A12:2014; National Differences specified in the CB Test Report. The risk management requirements of the standard were not addressed

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: 2017-12-12

Original Issue Date: 2017-12-12

Signature:

Jan-Erik Storgaard

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE**CERTIFICAT D'ESSAI OC**

Product
Produit

Switching power supply

Name and address of the applicant
Nom et adresse du demandeur

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

Name and address of the manufacturer
Nom et adresse du fabricant

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

Name and address of the factory
Nom et adresse de l'usine

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

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Additional Information on page 2
See Page 2

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Trademark (if any)
Marque de fabrique (si elle existe)



CTF Stage 1

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais
constructeur

IMA-X1000-Y-ZZZZZ
See Page 2

Model / Type Ref.
Ref. De type

Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,,
peuvent être indiqués sur la 2^{ème} page

Additionally evaluated to EN 60950-1: 2006 / A11: 2009 / A1:
2010 / A12: 2011 / A2:2013; 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
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60950-1(ed.2), IEC 60950-1(ed.2);am1, IEC 60950-
1(ed.2);am2

As shown in the Test Report Ref. No. which forms
part of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

E191395-A511-CB-1 issued on 2016-05-17

This CB Test Certificate is issued by the National Certification Body

Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**



- 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: 2016-05-17

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-54446-UL

Model Details:

IMA-X1000-Y-ZZZZZ where X can be letter C or S. Y can be any number from 12 thru 48, and Z can be any alphanumeric character or blank that have no impact on safety.

Factories:

DELTA ELECTRONICS POWER (DONGGUAN) CO LTD
DELTA INDUSTRIAL ESTATE
SHIJIE TOWN
DONGGUAN, 523308 GUANGDONG China

Ratings:

100-240 Vac, 12-5A, 50/60Hz
/ 120-300 Vdc, 9.5A max

Output for Model IMA-X1000-12-ZZZZZ:

12 Vdc, 84A max
5 Vdc, 2A max
Total power: 1018W

Output for Model IMA-X1000-24-ZZZZZ:

24 Vdc, 42A max
5 Vdc, 2A max
Total power: 1018W

Output for Model IMA-X1000-48-ZZZZZ:

48 Vdc, 21A max
5 Vdc, 2A max
Total power: 1018W

Additional information (if necessary)

Information complémentaire (si nécessaire)



UL (US), 333 Pflingsten 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: 2016-05-17

Signature:

Jan-Erik Storgaard

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE**CERTIFICAT D'ESSAI OC**

Product
Produit

Switching Power Supply for Building In

Name and address of the applicant
Nom et adresse du demandeur

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

Name and address of the manufacturer
Nom et adresse du fabricant

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

Name and address of the factory
Nom et adresse de l'usine

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

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Additional Information on page 2
See Page 2

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Trademark (if any)
Marque de fabrique (si elle existe)



Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais
constructeur

SMT

Model / Type Ref.
Ref. De type

IMA-X1000-Y-ZZZZZ
See Page 2

Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,,
peuvent être indiqués sur la 2^{ème} page

National Differences specified in the CB Test Report.
Risk Management was not included in this investigation.
 Additional Information on page 2

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60601-1 (ed.3)

As shown in the Test Report Ref. No. which forms
part of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

E325662-A9-CB-1 issued on 2014-02-19

This CB Test Certificate is issued by the National Certification Body

Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**



- 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

Date: 2014-02-19

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-37154-UL

Model Details:

IMA-X1000-Y-ZZZZZ where X can be letter C or S. Y can be either 12, 24 or 48 and Z can be any alphanumeric character or blank that have no impact on safety.

Ratings:

AC Input: 100-240VAC, 12-5A max., 50/60Hz

Rated Output (Model IMA-X1000-12-ZZZZZ): 12VDC, 84A max. 5VDC, 2A max.

Rated Output (Model IMA-X1000-24-ZZZZZ): 24VDC, 42A max. 5VDC, 2A max.

Rated Output (Model IMA-X1000-48-ZZZZZ): 48VDC, 21A max. 5VDC, 2A max.

Additional information (if necessary)

Information complémentaire (si nécessaire)



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: 2014-02-19

Signature:

Jan-Erik Storgaard

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE**CERTIFICAT D'ESSAI OC**

Product
Produit

Switching Power Supply

Name and address of the applicant
Nom et adresse du demandeur

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

Name and address of the manufacturer
Nom et adresse du fabricant

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

Name and address of the factory
Nom et adresse de l'usine

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

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Additional Information on page 2
See Page 2

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Delta

Trademark (if any)
Marque de fabrique (si elle existe)
Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais
constructeur

Model / Type Ref.
Ref. De type

IMA-X1000-Y-ZZZZZ
See Page 2

Additional information (if necessary may also be
reported on page 2)
Les informations complémentaires (si nécessaire,,
peuvent être indiqués sur la 2^{ème} page

-
 Additional Information on page 2

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 62368-1(ed.1)

As shown in the Test Report Ref. No. which forms
part of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

OFF-4786115188-A-1 issued on 2014-01-23

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Denko), 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: 2014-01-23

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-36804-UL

Model Details:

IMA-X1000-Y-ZZZZZ where X can be letter C or S. Y can be any number from 12 thru 48, and Z can be any alphanumeric character or blank that have no impact on safety.

Factories:

DELTA ELECTRONICS POWER (DONGGUAN) CO LTD
DELTA INDUSTRIAL ESTATE
SHIJIE TOWN
DONGGUAN, 523308 GUANGDONG China

Ratings:

100-240 Vac, 12-5A, 50/60Hz / 120-300 Vdc, 9.5A max

Output for Model IMA-X1000-12-ZZZZZ:

12 Vdc, 84A max
5 Vdc, 2A max
Total power: 1018W

Output for Model IMA-X1000-24-ZZZZZ:

24 Vdc, 42A max
5 Vdc, 2A max
Total power: 1018W

Output for Model IMA-X1000-48-ZZZZZ:

48 Vdc, 21A max
5 Vdc, 2A max
Total power: 1018W

Additional information (if necessary)

Information complémentaire (si nécessaire)



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: 2014-01-23

Signature:

Jan-Erik Storgaard