

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	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
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	Input: 100-240VAC, 5-2A, 50/60Hz Total Output Power: 400W max, See Page 2
Trademark (if any)	
Type of Customer's Testing Facility (CTF) Stage used	CTF Stage 3
Model / Type Ref.	IMA-X400-Y-ZZZZZ, See Page 2
Additional information (if necessary may also be reported on page 2)	Risk Management was not included in this investigation. <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-D1011-1/A0/C0-CB issued on 2017-12-19

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: 2017-12-26

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

**DK-69361-UL**

**Model Details:**

IMA-X400-Y-ZZZZZ (where X = C or S, Y = 12 thru 48, Z = 0-9 or A-Z or blank)

**Ratings:**

Rated Output (Model IMA-X400-12-ZZZZZ): 12Vdc, 33.3A max. 5Vdc, 0.5A max.

Rated Output (Model IMA-X400-24-ZZZZZ): 24Vdc, 16.7A max. 5Vdc, 0.5A max.

Rated Output (Model IMA-X400-48-ZZZZZ): 48Vdc, 8.3A max. 5Vdc, 0.5A max.

**Additional Information:**

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

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

Date: 2017-12-26

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<sup>eme</sup> page

Additional Information on page 2  
See Page 2

Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales

DELTA  
TMP

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

IMA-X400-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<sup>eme</sup> 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-A428-CB-1 issued on 2014-07-18

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](http://www.ul.com/ncbnames)

Date: 2014-07-18

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

**DK-39838-UL**

**Model Details:**

IMA-X400-Y-ZZZZZ (where X = C or S, Y = 12 thru 48, Z = 0-9 or A-Z or blank)

**Factories:**

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

**Ratings:**

For Model IMA-X400-12-ZZZZZ:

**Input:**

100-240Vac; 5-2A; 50/60 Hz or  
120-300Vdc; 3.8A max

**Output:**

12Vdc, 33.3A max.  
5 Vdc, 0.5A max.  
Total Power 400W max.

For Model IMA-X400-24-ZZZZZ:

**Input:**

100-240Vac; 5-2A; 50/60 Hz or  
120-300Vdc; 3.8A max

**Output:**

24Vdc, 16.7A max.  
5 Vdc, 0.5A max.  
Total Power 400W max.

For Model IMA-X400-48-ZZZZZ:

**Input:**

100-240Vac; 5-2A; 50/60 Hz or  
120-300Vdc; 3.8A max

**Output:**

48Vdc, 8.3A max.  
5 Vdc, 0.5A max.  
Total Power 400W 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/nbnames](http://www.ul.com/nbnames)

Date: 2014-07-18

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 (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<sup>eme</sup> 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-X400-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<sup>eme</sup> page

Additionally evaluated to EN 60601-1:2006 / A11:2011; 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 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-A11-CB-1 issued on 2014-08-20

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](http://www.ul.com/ncbnames)

Date: 2014-08-20

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

**DK-40438-UL**

**Model Details:**

IMA-X400-Y-ZZZZZ (where X = C or S, Y = 12 thru 48, Z = 0-9 or A-Z or blank)

**Factories:**

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

**Ratings:**

For Model IMA-X400-12-ZZZZZ:

Input:

100-240Vac; 5-2A; 50/60 Hz

Output:

12Vdc; 33.3A max.

5 Vdc; 0.5A max.

Total Power 400W max.

For Model IMA-X400-24-ZZZZZ:

Input:

100-240Vac; 5-2A; 50/60 Hz

Output:

24Vdc; 16.7A max.

5 Vdc; 0.5A max.

Total Power 400W max.

For Model IMA-X400-48-ZZZZZ:

Input:

100-240Vac; 5-2A; 50/60 Hz

Output:

48Vdc; 8.3A max.

5 Vdc; 0.5A max.

Total Power 400W 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/mcbnames](http://www.ul.com/mcbnames)

Date: 2014-08-20

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 a plus d'une usine, veuillez utiliser la 2<sup>ème</sup> 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-X400-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<sup>ème</sup> 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.2)

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

4786468253-20140819-CB issued on 2014-08-19

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/ncbnames](http://www.ul.com/ncbnames)

Date: 2014-08-22

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

**DK-40494-UL**

**Model Details:**

IMA-X400-Y-ZZZZZ (where X = C or S, Y = 12 thru 48, Z = 0-9 or A-Z or blank)

**Factories:**

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

**Ratings:**

For Model IMA-X400-12-ZZZZZ:

**Input:**

100-240Vac; 5 - 2A; 50/60 Hz or  
120-300Vdc; 3.8A max

**Output:**

12Vdc, 33.3A max.  
5 Vdc, 0.5A max.  
Total Power 400W max.

For Model IMA-X400-24-ZZZZZ:

**Input:**

100-240Vac; 5 - 2A; 50/60 Hz or  
120-300Vdc; 3.8A max

**Output:**

24Vdc, 16.7A max.  
5 Vdc, 0.5A max.  
Total Power 400W max.

For Model IMA-X400-48-ZZZZZ:

**Input:**

100-240Vac; 5 - 2A; 50/60 Hz or  
120-300Vdc; 3.8A max

**Output:**

48Vdc, 8.3A max.  
5 Vdc, 0.5A max.  
Total Power 400W 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](http://www.ul.com/ncbnames)

Date: 2014-08-22

Signature:

Jan-Erik Storgaard