

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

## CB TEST CERTIFICATE

Product	AC-DC Converter
Name and address of the applicant	COSEL CO LTD 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, 930-0816 TOYAMA Japan
Name and address of the manufacturer	COSEL CO LTD 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, 930-0816 TOYAMA Japan
Name and address of the factory	Cosel Co., Ltd. 1-6-43 Kamiakae-machi Toyama-shi, Toyama 930-0816, Japan
<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	Input: AC 100-240 V, 50-60 Hz, 0.08A DC 120-370 V, 0.04 A
Trademark (if any)	
Type of Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	TUHS3F05, TUHS3F12, TUHS3F15, TUHS3F24 See Page 2
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 Differences specified in the CB Test Report. <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(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	4788126510 issued on 2017-11-13

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: 2017-11-14  
Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska



Model Details:

TUHS3F05, TUHS3F12, TUHS3F15, TUHS3F24

May be provided with suffix -#####. Where # is any number 0 to 9 or letter A to Z or blank.

Factories:

Cosel Co., Ltd.

Tateyama Factory 78 Dogenji, Tateyama-machi Nakaniikawa-gun, Toyama 930-0241, Japan

Eikoku Co., Ltd.

45-6 Nishida Kaneoke, Kokufu-cho, Takayama-shi, Gifu 509-4123, Japan

Eikoku Co., Ltd.

Toyama Satellite Factory 223 Nakajinzu Yatsuo-Machi, Toyama-shi, Toyama 939-2311, Japan

Daiyon Corp.

1-18 Zoushima, Fuchu-machi, Toyama-shi, Toyama 939-2726, Japan

Kyousei Corp.

501-1-2 Nakaookubo Toyama-shi, Toyama 939-2243, Japan

Takanami Co., Ltd.

2000-39 Hirokami Imizu-shi, Toyama 939-0256, Japan

Sunrise Industries Co., Ltd.

2-24-6 Terajima, Itoigawa-shi, Niigata 941-0066, Japan

Wuxi Cosel Electronics Co., Ltd.

5TH FL, BLD A3, No.866 Liyuan Development Zone Wuxi Jiangsu 214072 P.R. China

Additional Information:

The original report was modified to include the following changes/additions: revision to model name and discription, revision to critical component table, addition of alternate component; see Test report.

Additional information (if necessary)



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

Date: 2017-11-14

Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska

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

## CB TEST CERTIFICATE

Product	AC-DC Converter
Name and address of the applicant	COSEL CO LTD 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, 930-0816 TOYAMA Japan
Name and address of the manufacturer	COSEL CO LTD 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, 930-0816 TOYAMA Japan
Name and address of the factory	Cosel Co., Ltd. 1-6-43 Kamiakae-machi Toyama-shi, Toyama 930-0816, Japan <input checked="" type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	Input: AC 100-240 V, 50-60 Hz, 0.08A DC 120-370 V, 0.04 A
Trademark (if any)	
Type of Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	TUHS3Fx See Page 2
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 Differences specified in the CB Test Report. <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(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	4787960149 issued on 2017-05-18

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: 2017-05-19  
Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

US-29305-A2-UL

Model Details:

TUHS3Fx (x = 05, 12, 15 or 24)
May be provided with suffix "-#####".
# is any number 0-9 or letter A to Z or blank.

Factories:

Cosel Co., Ltd.
Tateyama Factory 78 Dogenji, Tateyama-machi Nakaniikawa-gun, Toyama 930-0241,
Japan

Eikoku Co., Ltd.
45-6 Nishida Kaneoke, Kokufu-cho, Takayama-shi, Gifu 509-4123,
Japan

Eikoku Co., Ltd.
Toyama Satellite Factory 223 Nakajinzu Yatsuo-Machi, Toyama-shi, Toyama 939-2311,
Japan

Daiyon Corp.
1-18 Zoushima, Fuchu-machi, Toyama-shi, Toyama 939-2726,
Japan

Kyousei Corp.
501-1-2 Nakaookubo Toyama-shi, Toyama 939-2243,
Japan

Takanami Co., Ltd.
2000-39 Hirokami Imizu-shi, Toyama 939-0256,
Japan

Wuxi Cosel Electronics Co., Ltd.
5TH FL, BLD A3, No.866 Liyuan Development Zone Wuxi Jiangsu 214072
P.R. China

Sunrise Industries Co., Ltd.
2-24-6 Terajima, Itoigawa-shi, Niigata 941-0066,
Japan

Additional Information:

The original report was modified to include the following changes/additions: to add alternate PWB and Optical Isolator

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: 2017-05-19
Original Issue Date: 2017-02-14

Signature:

[Handwritten signature]

Jolanta M. Wroblewska



Ref. Certif. No.

US-29305-A1-UL

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

CB TEST CERTIFICATE

Product	AC-DC Converter
Name and address of the applicant	COSEL CO LTD 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, 930-0816 TOYAMA Japan
Name and address of the manufacturer	COSEL CO LTD 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, 930-0816 TOYAMA Japan
Name and address of the factory	Cosel Co., Ltd. 1-6-43 Kamiakae-machi Toyama-shi, Toyama 930-0816, Japan
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: AC 100-240 V, 50-60 Hz, 0.08A DC 120-370 V, 0.04 A
Trademark (if any)	
Type of Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	TUHS3Fx See Page 2
Additional information (if necessary may also be reported on page 2)	The original report was modified to include the following changes: to add alternate PWB, update factory information and to correct typographical error <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(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	4787799753 issued on 2017-04-19

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

Date: 2017-04-19  
Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska

## Model Details:

TUHS3Fx

(x = 05, 12, 15 or 24)

May be provided with suffix "-#####".

# is any number 0-9 or letter A to Z or blank.

## Factories:

Cosel Co., Ltd.

Tateyama Factory 78 Dogenji, Tateyama-machi Nakaniikawa-gun, Toyama 930-0241,  
Japan

Eikoku Co., Ltd.

45-6 Nishida Kaneoke, Kokufu-cho, Takayama-shi, Gifu 509-4123,  
Japan

Eikoku Co., Ltd.

Toyama Satellite Factory 223 Nakajinzu Yatsuo-Machi, Toyama-shi, Toyama 939-2311,  
Japan

Daiyon Corp.

1-18 Zoushima, Fuchu-machi, Toyama-shi, Toyama 939-2726,  
Japan

Kyousei Corp.

501-1-2 Nakaookubo Toyama-shi, Toyama 939-2243,  
Japan

Takanami Co., Ltd.

2000-39 Hirokami Imizu-shi, Toyama 939-0256,  
Japan

Sunrise Industries Co., Ltd.

2-24-6 Terajima, Itoigawa-shi, Niigata 941-0066,  
Japan

Wuxi Cosel Electronics Co., Ltd.

5TH FL, BLD A3, No.866 Liyuan Development Zone Wuxi Jiangsu 214072  
P.R. China

## Additional Information:

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

Date: 2017-04-19

Original Issue Date: 2017-02-14

Signature:



Jolanta M. Wroblewska

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

AC-DC Converter

Name and address of the applicant  
Nom et adresse du demandeur

Cosel Co., Ltd.  
1-6-43 Kamiakae-machi, Toyama-shi, Toyama 930-0816, Japan

Name and address of the manufacturer  
Nom et adresse du fabricant

Cosel Co., Ltd.  
1-6-43 Kamiakae-machi, Toyama-shi, Toyama 930-0816, Japan

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

Cosel Co., Ltd.  
1-6-43 Kamiakae-machi Toyama-shi, Toyama 930-0816,  
Japan

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

Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales

Input: AC 100-240 V, 50-60 Hz, 0.08A  
DC 120-370 V, 0.04 A

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

TUHS3Fx  
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

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

4787700102 issued on 2017-02-09

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 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

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

Date: 2017-03-10  
Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

**US-29305-M1-UL**

**Model Details:**

TUHS3Fx (x = 05, 12, 15 or 24)

May be provided with suffix "-#####".

# is any number 0-9 or letter A to Z or blank.

**Factories:**

Cosel Co., Ltd. Tateyama Factory  
78 Dogenji, Tateyama-machi Nakaniikawa-gun, Toyama 930-0241,  
Japan

Eikoku Co., Ltd.  
45-6 Nishida Kaneoke, Kokufu-cho, Takayama-shi, Gifu 509-4123,  
Japan

Eikoku Co., Ltd.  
Toyama Satellite Factory  
223 Nakajinzu Yatsuo-Machi, Toyama-shi, Toyama 939-2311,  
Japan

Daiyon Corp.  
1-18 Zoushima, Fuchu-machi, Toyama-shi, Toyama 939-2726,  
Japan

Kyousei Corp.  
501-1-2 Nakaookubo Toyama-shi, Toyama 939-2243,  
Japan

Takanami Co., Ltd.  
2000-39 Hirokami Imizu-shi, Toyama 939-0256,  
Japan

**Additional Information:**

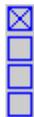
Additionally evaluated to EN 60950-1:2006/ A11:2009/ A1:2010/ A12:2011/ A2:2013; National Differences specified in the CB Test Report.

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

Updated model description due to typo.

**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: 2017-03-10

Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska

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

AC-DC Converter

Name and address of the applicant  
Nom et adresse du demandeur

COSEL CO LTD  
1-6-43 KAMIAKAE-MACHI  
TOYAMA-SHI, TOYAMA 930-0816 Japan

Name and address of the manufacturer  
Nom et adresse du fabricant

COSEL CO LTD  
1-6-43 KAMIAKAE-MACHI  
TOYAMA-SHI, TOYAMA 930-0816 Japan

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

Cosel Co., Ltd.  
1-6-43 Kamiakae-machi Toyama-shi, Toyama 930-0816,  
Japan

Note: When more than one factory, please report on page 2  
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2<sup>ème</sup> page

Additional Information on page 2

Ratings and principal characteristics  
Valeurs nominales et caractéristiques principales

Input: AC 100-240 V, 50-60 Hz, 0.08A  
DC 120-370 V, 0.04 A

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

TUHS3Fx  
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

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

4787700102 issued on 2017-02-09

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: 2017-02-14

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

**US-29305-UL**

**Model Details:**

TUHS3Fx "x" is 05, 12 or 24

May be provided with suffix "#####".

"#" is any number 0 to 9 or letter A to Z or blank.

**Factories:**

Cosel Co., Ltd.

Tateyama Factory 78 Dogenji, Tateyama-machi Nakaniikawa-gun, Toyama 930-0241, Japan

Eikoku Co., Ltd.

45-6 Nishida Kaneoke, Kokufu-cho, Takayama-shi, Gifu 509-4123, Japan

Eikoku Co., Ltd.

Toyama Satellite Factory 223 Nakajinzu Yatsuo-Machi, Toyama-shi, Toyama 939-2311, Japan

Daiyon Corp.

1-18 Zoushima, Fuchu-machi, Toyama-shi, Toyama 939-2726, Japan

Kyousei Corp.

501-1-2 Nakaookubo Toyama-shi, Toyama 939-2243, Japan

Takanami Co., Ltd.

2000-39 Hirokami Imizu-shi, Toyama 939-0256, Japan

**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: 2017-02-14

Signature:

Jolanta M. Wroblewska