

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

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

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

☒ 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.

☒ 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

Date: 2017-11-14

Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

US-29305-A3-UL**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 Nakaoakubo 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)☒ 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

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

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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

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

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

☒ 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.

☒ 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

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 Nakaoakubo 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, CANADAFor full legal entity names see www.ul.com/ncbnames

Date: 2017-05-19

Original Issue Date: 2017-02-14

Signature:

Jolanta M. Wroblewska

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

☒ [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 (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: 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 Nakaoakubo 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, 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

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

Product
Produit

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

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

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

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

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^{eme} page

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

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

CERTIFICAT D'ESSAI OC

AC-DC Converter

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

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

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

☒ Additional Information on page 2

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



TUHS3Fx
See Page 2

☒ Additional Information on page 2

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

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 (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: 2017-03-10
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 Nakaoakubo 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/nbcnames

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

Product
Produit

Name and address of the applicant
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Nom et adresse du fabricant

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Nom et adresse de l'usine

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

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

Model / Type Ref.
Ref. De type

Additional information (if necessary may also be
reported on page 2)
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A sample of the product was tested and found
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Un échantillon de ce produit a été essayé et a été
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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

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

CERTIFICAT D'ESSAI OC

AC-DC Converter

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

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TOYAMA-SHI, TOYAMA 930-0816 Japan

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

☒ Additional Information on page 2

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



TUHS3Fx
See 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

☐ Additional Information on page 2

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

4787700102 issued on 2017-02-09



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: 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.

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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 Nakaoakubo 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, CANADAFor full legal entity names see www.ul.com/ncbnames

Date: 2017-02-14

Signature:

Jolanta M. Wroblewska