



Ref. Certif. No.

JP-14720-A3-UL

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

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

Name and address of the manufacturer

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

Name and address of the factory

COSEL CO., LTD. TATEYAMA FACTORY
78 DOGENJI, TATEYAMA-MACHI NAKANIIKAWA-GUN, TOYAMA 930-0241 JAPAN

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

☒ Additional Information on page 2

Ratings and principal characteristics

AC100-240V, 50-60Hz, 7.3A

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

CTF Stage 2

Model / Type Ref.

See Page 2

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

The report was revised to include technical modifications.
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 60950-1:2005, IEC 60950-1:2005/AMD1:2009,
IEC 60950-1:2005/AMD2:2013

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

E132067-A142-CB-2 issued on 2022-06-27

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: 2022-06-27

Original Issue Date: 2017-12-22

Signature:

Masamichi Takagi



Ref. Certif. No.

JP-14720-A3-UL

Factory(ies):

EIKOKU CO., LTD.

45-6 NISHIDA KANEOKI, KOKUFU-CHO TAKAYAMA-SHI, GIFU 509-4123
JAPAN

TAKANAMI CO., LTD.

2000-39 HIROKAMI IMIZU-SHI, TOYAMA 939-0256
JAPAN

KYOUSEI CO LTD

501-1 NAKAOKUBO TOYAMA-SHI TOYAMA-KEN 939-2243
JAPAN

COSEL CO., LTD.

1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, TOYAMA 930-0816
JAPAN

DAIYON CORP.

1-18 ZOUSHIMA, FUCHU-MACHI TOYAMA-SHI, TOYAMA 939-2726
JAPAN

Model Detail(s):

PCA600F-5, PCA600F-12, PCA600F-15, PCA600F-24, PCA600F-32 and PCA600F-48

(May be followed by suffix -y. Where y any combination "C", "G", "I", "R", "F2", "T", "T5", "P2", "Jx (x can be 0-9)", "Wx (x can be 0-9)", "P3", "P6", "K" or blank)

Summary of Modifications:

[1] Addition of suffix "-T5".

The following parts have been added for suffix "T5".

- Main PWB (Only the pattern layout related to the Sub board connector (CN502, CN502) on the secondary circuit side is different from the original Main board. It is a pattern layout for sub board 3.)

- Sub PWB (Sub Board 3)

- Input Terminal Block, Zhenjiang Okayama Electron Co., Ltd., Type CB-13339.

- Output Terminal Block, Zhenjiang Okayama Electron Co., Ltd., Type PCA600-TB3.

[2] Addition of alternate Sub board (Sub Board 2) for all models with suffix except for suffix "T5", "K" and "P6".

[3] Addition of alternate IC401 for Sub board 2 and Sub Board 3, Infineon Technologies AG, Type ICE5GR4780AG.

[4] Suffix "K" and "P6"

Sub board 3 is used only for these suffixes and is used only in the Main PWB of suffix "T5".

[5] Addition of alternate Heat Radiation Sheets, Fuji Polymer Industries Co., Ltd., Type Sarcon PG25A-0.

[6] Addition of alternate Insulation Sheets between primary and earth GND (Insulation sheet A, B), Sabic Japan L L C or Sabic Research & Technology Pvt Ltd.(Bangalore), Type EFR95.

[7] Correction of Manufacture Name, Technical Data and Updating of Certification Information of associated components at Table 1.5.1. (No construction change was made.)

[8] Addition and Replacement of Enclosure Id. 3-07 to 3-13, 5-03, 7-01 to 7-05, 7-07, 7-08, 7-12, 7-13, 7-14, 7-18, 7-19, 7-21.

Additional information (if necessary)



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☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

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

Date: 2022-06-27

Original Issue Date: 2017-12-22

Signature:

M. Takagi
Masamichi Takagi

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CB SCHEME

CB TEST CERTIFICATE

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Name and address of the factory

COSEL CO., LTD. TATEYAMA FACTORY
78 DOGENJI, TATEYAMA-MACHI NAKANIIKAWA-GUN,
TOYAMA 930-0241
JAPAN

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

☒ Additional Information on page 2

Ratings and principal characteristics

AC100-240V, 50-60Hz, 7.3A

Trademark / Brand (if any)



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

Model / Type Ref.

See Page 2

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

(Technical Modification)

☒ Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009,
IEC 60950-1:2005/AMD2:2013

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

E132067-A142-CB-2 issued on 2020-01-21

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- ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

Date: 2020-01-27

Original Issue Date: 2017-12-22

Signature:



Masamichi Takagi

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

Model Details:

PCA600F-5, PCA600F-12, PCA600F-15, PCA600F-24, PCA600F-32 and PCA600F-48

(May be followed by suffix -y.

Where y any combination "C", "G", "I", "R", "F2", "T", "P2", "Jx (x can be 0-9)", "Wx (x can be 0-9)", "P3" or blank)

Factories:

EIKOKU CO., LTD.

45-6 NISHIDA KANEOKE, KOKUFU-CHO TAKAYAMA-SHI, Gifu 509-4123

JAPAN

TAKANAMI CO., LTD.

2000-39 HIROKAMI IMIZU-SHI, TOYAMA 939-0256

JAPAN

KYOUSEI CO LTD

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JAPAN

COSEL CO., LTD.

1-6-43 KAMIAKAE-MACHI TOYAMA-SHI, TOYAMA 930-0816

JAPAN

DAIYON CORP.

1-18 ZOUSHIMA, FUCHU-MACHI TOYAMA-SHI, TOYAMA 939-2726

JAPAN

Additional Information:

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

- Deletion of Insulation system of Transformer (T501), Cosel Co., Ltd., type F in table 1.5.1.
- Correction of typographical error in table 4.5.
- Change of suffix, from "'C", "G", "J", "J4", "I", "R", "F3", "T", "P2" or blank." to "'C", "G", "I", "R", "F2", "T", "P2", "Jx (x can be 0-9)", "Wx (x can be 0-9)", "P3" or blank".

Additionally evaluated to EN 60950-1:2006/ A11:2009/ 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

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Date: 2020-01-27

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CB SCHEME

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Name and address of the manufacturer

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JAPAN

Name and address of the factory

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

COSEL CO., LTD.
TATEYAMA FACTORY
78 DOGENJI, TATEYAMA-MACHI NAKANIICAWA-GUN,
TOYAMA 930-0241
JAPAN

☒ Additional Information on page 2

Ratings and principal characteristics

AC100-240V, 50-60Hz, 7.3A

Trademark (if any)



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

Model / Type Ref.

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

E132067-A142-CB-2 issued on 2018-04-11

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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: 2018-04-11

Original Issue Date: 2017-12-22

Signature:



Masamichi Takagi

Model Details:

PCA600F-5, PCA600F-12, PCA600F-15, PCA600F-24, PCA600F-32 and PCA600F-48

(May be provided with suffix -y. Where y maybe any combination "C", "G", "J", "J4", "I", "R", "F3", "T", "P2" or blank.)

Factories:

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JAPAN

DAIYON CORP.

1-18 ZOUSHIMA, FUCHU-MACHI TOYAMA-SHI, TOYAMA 939-2726
JAPAN

Additional Information:

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

- Correction of Engineering Conditions of Acceptability.

[From]

The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): T501 primary winding (Class F), T501 secondary PWB winding (130°C), T401 (Class B)

[To]

The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): T501 primary winding (Class F), T401 (Class B)

- Correction of Object/part or Description and technical data at Table 1.5.1.

[1] Technical data of Insulation system of Transformer (T501): From Class F to Class F, Consists of the following components marked "(#)".

[2] Object/part or Description of Primary winding of Transformer (T501) for PCA600F-5, PCA600F-12 and Primary winding of Transformer (T501) for PCA600F-15, PCA600F-24, PCA600F-32, PCA600F-48: Addition of mark "#".

Additional information (if necessary)


UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (JP), Marunouchi Trust Tower Main Building 8F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

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Signature:



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☒ Additional Information on page 2

Ratings and principal characteristics

AC100-240V, 50-60Hz, 7.3A



Trademark (if any)

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

Model / Type Ref.

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Additionally evaluated to EN 60950-1:2006/ A11:2009/ A1:2010/
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A sample of the product was tested and found
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IEC 60950-1(ed.2), IEC 60950-1(ed.2);am1,
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Date: 2017-12-22

Signature:



Masamichi Takagi



Ref. Certif. No.

JP-14720-UL

Model Details:

PCA600F-5, PCA600F-12, PCA600F-15, PCA600F-24, PCA600F-32 and PCA600F-48

(May be provided with suffix -y. Where y maybe any combination "C", "G", "J", "J4", "I", "R", "F3", "T", "P2" or blank.)

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