



Ref. Certif. No.

JP-26094-M2-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 TOYAMA FACTORY 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI TOYAMA 930-0816 JAPAN <input checked="" type="checkbox"/> Additional Information on page 2
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	100-240 VAC, 50-60 Hz, 0.08A 120-370 VDC, 0.04 A
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model / Type Ref.	TUHS3F05, TUHS3F12, TUHS3F15 and TUHS3F24 May be provided with suffix -##### Where # is any number 0 to 9 or letter A to Z or blank.
Additional information (if necessary may also be reported on page 2)	The report was revised to include technical modifications. Additionally evaluated to EN IEC 62368-1:2020/A11:2020. National Differences specified in the CB Test Report. <input checked="" type="checkbox"/> Additional Information on pages 2 and 3
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018
As shown in the Test Report Ref. No. which forms part of this Certificate	E132067-A6134-CB-1 issued on 2025-05-12

This CB Test Certificate is issued by the National Certification Body



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

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

Date: 2025-05-13
Original Issue Date: 2022-04-25

Signature:
Masamichi Takagi



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JP-26094-M2-UL

Factory(ies):

COSEL CO LTD
TATEYAMA FACTORY
78 DOGENJI TATEYAMAMACHI NAKANIKAWA-GUN TOYAMA 930-0241
JAPAN

EIKOKU CO LTD
45-6 NISHIDA KANEOKI KOKUFU-CHO TAKAYAMA-SHI GIFU 509-4123
JAPAN

EIKOKU CO LTD
TOYAMA SATELLITE FACTORY
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1-18 ZOUSHIMA FUCHU-MACHI TOYAMA-SHI TOYAMA-KEN 939-2726
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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
CHINA

Summary of Modifications:

[1] Correction of Additional Information:
The following statement has been added.

"Unless otherwise stated, all tests were conducted on model TUHS3F24 as representative model."

[2] Correction of Supplementary information in Table 5.2:

The following statement has been added.

"The model tested was considered representative of the entire series because the construction is the same all other models."

Additional information (if necessary)



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Summary of Modifications (Continued):

[3] Correction of Table 6.2.2:

- Location column from "A", "B", "C", "D" to "Output of model TUHS3F05", "Output of model TUHS3F12", "Output of model TUHS3F15", "Output of model TUHS3F24".

- Operating and fault condition column from "Output of model TUHS3F05", "Output of model TUHS3F12", "Output of model TUHS3F15", "Output of model TUHS3F24" to "Load fault".

- The following statement has been added to Supplementary information.

"The worst case power source fault condition tests were waived because the unit shuts down within 3 seconds under the single fault condition of the associated component. See Table B.3, B.4 Abnormal operating and fault condition tests and Table 5.2 Classification of electrical energy sources for details."

[4] Correction of Supplementary information in B.3, B.4 Abnormal operating and fault condition tests:

The following statement has been added.

"Tests were conducted using models TUHS3F24, TUHS3F15 and TUHS3F05 as a representative of the model TUHS3F12.

The representative models were considered based on specifications of output (power), circuit configuration and/or Transformer winding number/structure."

Additional information (if necessary)



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Name and address of the factory	COSEL CO LTD TOYAMA FACTORY 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI TOYAMA 930-0816 JAPAN <input checked="" type="checkbox"/> Additional Information on page 2
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Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model / Type Ref.	TUHS3F05, TUHS3F12, TUHS3F15 and TUHS3F24 May be provided with suffix -##### Where # is any number 0 to 9 or letter A to Z or blank.
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JAPAN

WUXI COSEL ELECTRONICS CO LTD
5TH FL, BLD A3, NO.866 LIYUAN DEVELOPMENT ZONE WUXI JIANGSU 214072
CHINA

Summary of Modifications:

- [1] Addition of alternate (only for PWB type G3X) Potting Compound, Dow Toray Co., Ltd., Type SE 1817 CV M LTV A/B KIT.
- [2] Addition of alternate Optocoupler (PC101), LITE-ON Technology Corporation, Type LTV-217.
- [3] Deletion of Diode (D201) in Table 4.1.2.
- [4] Addition of original tested component for Cover (Optional), Diode Bridge (SS101), FET (TR102) and Inductor (L101) in Table 4.1.2.
- [5] Correction of Technical Data for alternate Diode Bridge (SS101) in Table 4.1.2 from "600 V, 0.8 A" to "Minimum 600 V, minimum 0.8 A".
- [6] Correction of Technical Data for alternate FET (TR102) in Table 4.1.2 from "0.63 A" to "minimum 0.63 A".
- [7] Correction of Technical Data for alternate Inductor (L101) in Table 4.1.2 from "Core: Ferrite, 470 μ H, see Enclosure Id. 4-02 for detail." to "470 μ H".

Additional information (if necessary)



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
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CB TEST CERTIFICATE

Product

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Name and address of the applicant

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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
TOYAMA FACTORY
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

100-240 VAC, 50-60 Hz, 0.08A
120-370 VDC, 0.04 A

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

TUHS3F05, TUHS3F12, TUHS3F15 and TUHS3F24
May be provided with suffix -#####
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Additional information (if necessary may also be reported on page 2)

Additionally evaluated to: EN IEC 62368-1:2020/A11:2020
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

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M. Takagi
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CHINA

Summary of Modifications:

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