

JP-26514-M2-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME			
Product	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 TATEYAMAMACHI NAKANIIKAWA-GUN TOYAMA 930-0241		
Note: When more than one factory, please report on page 2	JAPAN Additional Information on page 2		
Ratings and principal characteristics	100 - 240 V AC, 50-60 Hz, 7.0 A		
Trademark / Brand (if any)	COŞEL		
Customer's Testing Facility (CTF) Stage used	CTF Stage 2		
Model / Type Ref.	GHA700F-12, GHA700F-24, GHA700F-30, GHA700F-48, and GHA700F-56 (Followed by suffix "-zyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", "V", "Rn" (n = any number 0 to 9) or blank, in the combination of two or more.)		
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. For Class I Additional Information on page 2		
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-A6144-CB-1 issued on 2024-04-25		
This CB Test Certificate is issued by the National Certification Body			
	Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA		
Date: 2024-04-25 Original Issue Date: 2022-09-29	Signature: Masamichi Takagi		





## JP-26514-M2-UL

#### Summary of Modifications:

[1] Addition of model [Class I] GHA700F-12 (Followed by suffix "-zyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", "V", "Rn" (n = any number 0 to 9) or blank, in the combination of two or more.), [Class II] GHA700F-12 (Followed by suffix "-zEzyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", 'V", "Rn" (n = any number 0 to 9) or blank, in the combination of two or more.)

[2] Addition of alternate Thermally conductive sheet A, Thermally conductive sheet B and Thermally conductive sheet C, Fuji Polymer Industries Co., Ltd., Type SARCON GR25B-0. (The thermal conductivity of alternate Thermally conductive sheet is identical to the original.)

[3] Correction of "Manufacturer" for Cover of Transformer (T201) at Table 4.1.2 from "E I DUPONT DE NEMOURS & CO INC" to Celanese International Corp.".

[4] Replaced specification by adding minor tape of Transformer (T301). (Enclosure Id. 4-11. Added alternate tapes not related to insulation construction.)

[5] Replaced specification by adding the core material and changing the height of the inductor (L102). (Enclosure Id. 4-02.) 6] Correction of typo "technical data" for Diode Bridge (SS101) at Table 4.1.2 from "600 V, 25 A (Basic Insulation)" to "600 V, 25

[7] Correction of typo "technical data" for Insulation sheet between PWB and Chassis at Table 4.1.2, Table 5.4.4.2, Table 5.4.4.9 and Table 5.4.9 from "(Reinforced Insulation)" to " (Class I: Basic Insulation, Class II: Basic/Supplementary)". [8] Correction of typo "technical data" for Thermally conductive sheet A at Table 4.1.2 from "Overall 71 x 41 mm (Reinforced

Insulation)" to "Overall 17 x 41 mm (Basic Insulation)".

[9] Correction of typo "technical data" for Thermally conductive sheet B at Table 4.1.2 from "(Reinforced Insulation)" to "(Basic Insulation)".

[10] Correction of typo "technical data" for Thermally conductive sheet C at Table 4.1.2, Table 5.4.4.2 and Table 5.4.4.9 from 0.25 mm thick. (Reinforced Insulation)" to "minimum 0.4 mm thick. (Class I: Basic Insulation, Class II: Supplementary)". [11] Correction of typo "Engineering Conditions of Acceptability" from "For models with suffix E (Class II construction), Basic or

Supplementary insulation must be provided between Chassis and user accessible parts." to "For models with suffix E (Class II construction), Supplementary insulation must be provided between Chassis and user accessible parts." [12] Correction of typo T201 secondary pin number in Table 5.4.1.8, from "Pin 3" to "Pin 6", from "Pin 4" to "pin 5" and from "5,

6" to "3, 4".

[13] Correction of typo Test item particulars:Manufacturer's specified Tma (°C) from "70" to "80". [14] Updated National Differences for Singapore. (Removed Enclosure ID 07-03.)

### Additional information (if necessary)



□ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA □ UL Solutions (Demko), Borupvang SA 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: 2024-04-25 Original Issue Date: 2022-09-29

Signature:

M. Jakayi



JP-26515-M2-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME			
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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 TATEYAMAMACHI NAKANIIKAWA-GUN TOYAMA 930-0241		
Note: When more than one factory, please report on page 2	JAPAN Additional Information on page 2		
Ratings and principal characteristics	100 - 240 V AC, 50-60 Hz, 7.0 A		
Trademark / Brand (if any)	COŞEL		
Customer's Testing Facility (CTF) Stage used	CTF Stage 2		
Model / Type Ref.	GHA700F-12, GHA700F-24, GHA700F-30, GHA700F-48, and GHA700F-56 (Followed by suffix "-zEzyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", "V", "Rn" (n = any number 0 to 9) or blank, in the combination of two or more.)		
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. For Class II Additional Information on page 2		
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-A6144-CB-1 issued on 2024-04-25		
This CB Test Certificate is issued by the National Certification Body			
	Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA		
Date: 2024-04-25 Original Issue Date: 2022-09-29	Signature: Masamichi Takagi		





## JP-26515-M2-UL

#### Summary of Modifications:

[1] Addition of model [Class I] GHA700F-12 (Followed by suffix "-zyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", "V", "Rn" (n = any number 0 to 9) or blank, in the combination of two or more.), [Class II] GHA700F-12 (Followed by suffix "-zEzyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", 'V", "Rn" (n = any number 0 to 9) or blank, in the combination of two or more.)

[2] Addition of alternate Thermally conductive sheet A, Thermally conductive sheet B and Thermally conductive sheet C, Fuji Polymer Industries Co., Ltd., Type SARCON GR25B-0. (The thermal conductivity of alternate Thermally conductive sheet is identical to the original.)

[3] Correction of "Manufacturer" for Cover of Transformer (T201) at Table 4.1.2 from "E I DUPONT DE NEMOURS & CO INC" to Celanese International Corp.".

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6" to "3, 4".

[13] Correction of typo Test item particulars:Manufacturer's specified Tma (°C) from "70" to "80". [14] Updated National Differences for Singapore. (Removed Enclosure ID 07-03.)

### Additional information (if necessary)



□ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA □ UL Solutions (Demko), Borupvang SA 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: 2024-04-25 Original Issue Date: 2022-09-29

Signature:

M. Jakayi



Date: 2023-03-17

Original Issue Date: 2022-09-29

Ref. Certif. No.

JP-26514-M1-UL

### IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME **CB TEST CERTIFICATE** Power Supply Product COSEL CO LTD Name and address of the applicant 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI TOYAMA 930-0816 JAPAN COSEL CO LTD Name and address of the manufacturer 1-6-43 KAMIAKAE-MACHI TOYAMA-SHI TOYAMA 930-0816 JAPAN COSEL CO LTD Name and address of the factory TATEYAMA FACTORY 78 DOGENJI TATEYAMAMACHI NAKANIIKAWA-GUN TOYAMA 930-0241 JAPAN Note: When more than one factory, please report on page 2 Additional Information on page 2 100 - 240 V AC, 50-60 Hz, 7.0 A Ratings and principal characteristics Trademark / Brand (if any) ISEL СС CTF Stage 2 Customer's Testing Facility (CTF) Stage used GHA700F-24, GHA700F-30, GHA700F-48, and GHA700F-56 (Followed by suffix "-zyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", "V", "Rn" (n = any number 0 to 9) or blank, in the Model / Type Ref. combination of two or more.) The report was revised to include technical modifications. Additionally evaluated to: EN IEC 62368-1:2020/A11:2020. Additional information (if necessary may also be reported on page 2) National Differences specified in the CB Test Report. For Class I Additional Information on page 2 A sample of the product was tested and found IEC 62368-1:2018 to be in conformity with As shown in the Test Report Ref. No. which forms E132067-A6144-CB-1 issued on 2023-03-16 part of this Certificate 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 **Solutions** For full legal entity names see www.ul.com/ncbnames Mr. Jakayi

Masamichi Takagi

Signature:



JP-26514-M1-UL

#### Summary of Modifications:

- Change of Y-Capacitors (C181, C182, C183, C184, C581) (for Models with suffix E), from "1000 pF" to "470pF".
- Minor changes in circuit and PWB layout. (Table 5.4.2, 5.4.3: Minimum Clearances/Creepage distance were not changed.)
- Replacement of Enclosure Id. 3-01, 3-02, 3-03, 3-05, 5-01, 5-02, 5-03.
- Addition of national difference of China.
- Correction of Clause 4.4.3.1, Clause T.2, Table 4.1.2, Table T.2 and Enclosure Id. 7-06 for original evaluation result of Annex P.4. (No construction change was made.)

### Additional information (if necessary)



Original Issue Date: 2022-09-29

□ 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

Signature:

Mr. Jakayi



JP-26515-M1-UL

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

## CB TEST CERTIFICATE

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

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

Ratings and principal characteristics

Trademark / Brand (if any)

Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

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

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

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

Power Supply

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 TATEYAMA FACTORY

78 DOGENJI TATEYAMAMACHI NAKANIIKAWA-GUN TOYAMA 930-0241 JAPAN

Additional Information on page 2

100 - 240 V AC, 50-60 Hz, 7.0 A



CTF Stage 2

GHA700F-24, GHA700F-30, GHA700F-48, and GHA700F-56 (Followed by suffix "-zEzyz". Where "y" is "J1" or "J5", Where "z" may be any combination of "C", "I3", "T3", "U1", "V", "Rn" (n = any number 0 to 9) or blank, in the combination of two or more.)

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. For Class II ☑ Additional Information on page 2

IEC 62368-1:2018

E132067-A6144-CB-1 issued on 2023-03-16

This CB Test Certificate is issued by the National Certification Body

UL Solutions	□ UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA □ UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DEMMARK ⊠ 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	
	Signature: Mr. Jakayi	For full legal entity names see <u>www.ul.com/ncbnames</u>
Date: 2023-03-17	Signature:	
Original Issue Date: 2022-09-29	Masamichi Takagi	



JP-26515-M1-UL

#### Summary of Modifications:

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- Correction of Clause 4.4.3.1, Clause T.2, Table 4.1.2, Table T.2 and Enclosure Id. 7-06 for original evaluation result of Annex P.4. (No construction change was made.)

### Additional information (if necessary)



□ 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

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Signature:

Original Issue Date: 2022-09-29

Mr. Jakayi



JP-26514-UL

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME			
CB TEST CERTIFICATE			
Product	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		
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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			
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Date: 2022-09-29

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Masamichi Takagi



JP-26515-UL

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CB TEST CERTIFICATE			
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Date: 2022-09-29

Signature:

re: Masamichi Takagi