



Ref. Certif. No.

JP-26127-M1-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 TATEYAMAMACHI NAKANIIKAWA-GUN TOYAMA 930-0241 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 Ratings: 100-240 VAC, 50-60 Hz, 2.7 A 88-350 VDC, 3.1 A Output Ratings: See Test report.
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model / Type Ref.	KHEA240F-24, KHNA240F-24 and KHEA240F-52-XALL May be provided with suffix "x". (Where "x" may be any combination of "-C", "-N2" 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 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-A6095-CB-1 issued on 2024-06-17

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: 2024-06-18
Original Issue Date: 2022-05-04

Signature:
Masamichi Takagi



Ref. Certif. No.

JP-26127-M1-UL

Factory(ies):

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

Summary of Modifications:

- [1] Addition of DC input rating (88-350 VDC, 3.1 A) for model KHEA240F-52-XALL.
- [2] Change of overcurrent protection operation of main outout for model KHEA240F-52-XALL.
- [3] Correction of "Manufacturer" and "Mark(s) of conformity" in Table 4.1.2.
 - "Insulation sheet between Chassis and PWB" from "SABIC Innovative Plastics US L L C, SABIC JAPAN L L C or SABIC Innovative Plastics BV, UL (E121562, E207780 or E45329)" to "F&S US LLC, F&S China Co., Ltd. or F&S Holding B.V., UL (E539157, E539253 or E539252)".
 - "Alternate Insulation sheet between Chassis and PWB" from "SABIC Innovative Plastics US L L C or SABIC JAPAN L L C, UL (E121562 or E207780)" to "F&S US LLC or F&S China Co., Ltd., UL (E539157 or E539253)".
- [4] In Table 5.4.4.2 and 5.4.4.9, the manufacturer was corrected and an omission was added.
 - Correction of manufacturer from "(*4) SABIC Innovative Plastics US L L C" to "(*4) F&S US LLC, F&S China Co., Ltd. or F&S Holding B.V."
 - Addition of "(*8) F&S US LLC or F&S China Co., Ltd., Type EFR95".
- [5] In Table 5.4.9, the manufacturer was corrected and an omission was added.
 - Correction of manufacturer from "(*7) SABIC Innovative Plastics US L L C" to "(*7) F&S US LLC, F&S China Co., Ltd. or F&S Holding B.V."
 - Addition of "(*11) F&S US LLC or F&S China Co., Ltd., Type EFR95".
- [6] Updated National Differences for USA and Canada standard from "UL 62368-1 3rd Edition, Issued December 13, 2019, CAN/CSA C22.2 No. 62368-1:19, 3rd Edition" to "UL 62368-1 3rd Edition, Revised October 22, 2021, CAN/CSA C22.2 No. 62368-1:19, 3rd Edition, Revised October 22, 2021".

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
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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 Ratings: 100-240 VAC, 50-60 Hz, 2.7 A 88-350 VDC, 3.1 A (except for model KHEA240F-52-XALL) Output Ratings: See Test report.
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model / Type Ref.	KHEA240F-24, KHNA240F-24, KHEA240F-52-XALL May be provided with suffix "x". (Where "x" may be any combination of "-C", "-N2" or blank)
Additional information (if necessary may also be reported on page 2)	Additionally evaluated to: EN IEC 62368-1:2020/A11:2020 National Difference specified in the CB Test Report.
A sample of the product was tested and found to be in conformity with	<input type="checkbox"/> Additional Information on page 2 IEC 62368-1:2018
As shown in the Test Report Ref. No. which forms part of this Certificate	E132067-A6095-CB-1 issued on 2022-05-03

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

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Masamichi Takagi



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Date: 2022-05-04

Signature:

M. Takagi
Masamichi Takagi