Ref. Certif. No.

**DK-86811-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 | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu District, New Taipei City 24891<br>Taiwan |
| Name and address of the manufacturer | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu District, New Taipei City 24891<br>Taiwan |
| Name and address of the factory | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu District, New Taipei City 24891<br>Taiwan |
| Note: *When more than one factory, please report on page 2* | ☒ Additional Information on page 2 |
| Ratings and principal characteristics | For Models PHP-3500-24, PHP-3500-24CAN: Input: 100-120Vac, 21A, 50/60Hz, Output: 24Vdc, 72.5A<br>☒ Additional Information on page 2 |
| Trademark / Brand (if any) | MEAN WELL |
| Customer's Testing Facility (CTF) Stage used | |
| Model / Type Ref. | PHP-3500-24, PHP-3500-24CAN, PHP-3500-48, PHP-3500-48CAN, PHP-3500-115, PHP-3500-115CAN, PHP-3500-230, PHP-3500-230CAN, PHP-3500-380, PHP-3500-380CAN |
| Additional information (if necessary may also be reported on page 2) | **Additionally evaluated to:** EN 62368-1:2014/A11:2017, EN 62368-1:2014.<br>The report was revised to include technical modifications.<br>National Differences: EU Group Differences, AU, CA, DK, JP, NZ, US<br>☒ Additional Information on page 2 |
| A sample of the product was tested and found to be in conformity with | IEC 62368-1:2014 |
| As shown in the Test Report Ref. No. which forms part of this Certificate | WTD23D11248121D issued on 2024-01-17 |

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, 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: 2024-01-17
Original Issue Date: 2019-08-19

Signature:
Thomas Wilson

**Factory(ies):**
MEAN WELL (Guangzhou) Electronics Co., Ltd
No 11 Jingu South Road, Huadu District, Guangzhou, Guangdong 510890,
China

SuZhou MEAN WELL Technology Co., Ltd.
No.269, Changping Road, Huangdai Town Xiangcheng District, Suzhou, Jiangsu 215152,
China.

YONGDEN TECHNOLOGY CORPORATION
345 Macarthur Hwy, Tabang, Guiguinto, Bulacan 3015,
Philippines

MEAN WELL INDIA ELECTRONICS PRIVATE LIMITED
9c Peenya industrial Area Chokkasandra 2nd Phase Peenya, Bengaluru (Bangalore) Urban, Karnataka 560058,
INDIA

**Additional Ratings:**
Ratings:
For Models PHP-3500-24, PHP-3500-24CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 24Vdc, 72.5A
Input: 200-240Vac, 20A, 50/60Hz, Output: 24Vdc, 145A
For Models PHP-3500-48, PHP-3500-48CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 48Vdc, 36.5A
Input: 200-240Vac, 20A, 50/60Hz, Output: 48Vdc, 73A
For Models PHP-3500-115, PHP-3500-115CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 110-160 V d.c., 1750 W, max. 13.1 A
Input: 200-240Vac, 20A, 50/60Hz, Output: 110-160 V d.c., 3500 W, max. 26.2 A
For Models PHP-3500-230, PHP-3500-230CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 170-260 V d.c., 1750 W, max. 8.1 A
Input: 200-240Vac, 20A, 50/60Hz, Output: 170-260 V d.c., 3500 W, max. 16.1 A
For Models PHP-3500-380, PHP-3500-380CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 260-400 V d.c., 1750 W, max. 5.3 A
Input: 200-240Vac, 20A, 50/60Hz, Output: 260-400 V d.c., 3500 W, max. 10.5 A

**Summary of Modifications**:
1. Added a new EMI board (PHP-500HD-R2X) for all models.
2. Added a new alternative Optical Isolator (U302) with model LTV-1008 for models PHP-3500-24, PHP- 3500-24CAN, PHP-3500-48, PHP-3500-48CAN.
3. Update table 4.1.2.
4. Models PHP-3500-115, PHP-3500-115CAN, PHP-3500-230, PHP-3500-230CAN, PHP-3500-380, PHP- 3500-380CAN added Over voltage category (OVC) II.
5. Update factory name and address.
6. Summary of compliance with National Differences: In accordance with the requirements of the latest ND Bulletin, fill in the corresponding country's national standard.

**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

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

Date: 2024-01-17
Original Issue Date: 2019-08-19

Signature:

Thomas Wilson

Ref. Certif. No.

**DK-86811-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 | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu District, New Taipei City 24891Taiwan |
| Name and address of the manufacturer | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu District, New Taipei City 24891Taiwan |
| Name and address of the factory<br>Note: *When more than one factory, please report on page 2* | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu District, New Taipei City 24891, Taiwan<br>☒ Additional Information on page 2 |
| Ratings and principal characteristics | See Page 2 |
| Trademark / Brand (if any) | MEAN WELL |
| Customer's Testing Facility (CTF) Stage used | |
| Model / Type Ref. | PHP-3500-24, PHP-3500-24CAN, PHP-3500-48, PHP-3500-48CAN, PHP-3500-115, PHP-3500-115CAN, PHP-3500-230, PHP-3500-230CAN, PHP-3500-380, and PHP-3500-380CAN |
| Additional information (if necessary may also be reported on page 2) | The report was revised to include technical modifications.<br>☒ Additional Information on page 2 |
| A sample of the product was tested and found to be in conformity with | IEC 62368-1:2014 |
| As shown in the Test Report Ref. No. which forms part of this Certificate | 2102019-1-CB-M1 issued on 2021-04-28 |

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: 2021-05-03
Original Issue Date: 2019-08-19

Signature:

Jan-Erik Storgaard

Factories:
MEAN WELL (Guangzhou) Electronics Co., Ltd Huadu Branch
No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, Guangdong 510890,
China

SuZhou MEAN WELL Technology Co., Ltd.
No. 77, Jian-min Road, Dong-qiao, Pan-yang Ind. Park, Huang-dai Town, Xiang-cheng District, Suzhou,
Jiangsu 215152,
P.R. China

Yongden Technology Corporation
345 MacArthur Highway, Tabang, Guiguinto, Bulacan 3015,
Philippines

Ratings:
For Models PHP-3500-24, PHP-3500-24CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 24Vdc, 72.5A
Input: 200-240Vac, 20A, 50/60Hz, Output: 24Vdc, 145A
For Models PHP-3500-48, PHP-3500-48CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 48Vdc, 36.5A
Input: 200-240Vac, 20A, 50/60Hz, Output: 48Vdc, 73A
For Models PHP-3500-115, PHP-3500-115CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 110-160 V d.c., 1750 W, max. 13.1 A
Input: 200-240Vac, 20A, 50/60Hz, Output: 110-160 V d.c., 3500 W, max. 26.2 A
For Models PHP-3500-230, PHP-3500-230CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 170-260 V d.c., 1750 W, max. 8.1 A
Input: 200-240Vac, 20A, 50/60Hz, Output: 170-260 V d.c., 3500 W, max. 16.1 A
For Models PHP-3500-380, PHP-3500-380CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 260-400 V d.c., 1750 W, max. 5.3 A
Input: 200-240Vac, 20A, 50/60Hz, Output: 260-400 V d.c., 3500 W, max. 10.5 A

Additional Information:
Additionally evaluated to EN 62368-1:2014/A11:2017.; National Differences specified in the CB Test Report.

The original report was modified to include the following changes/additions:
1. Revised National Difference
2. Updated Summary of compliance with National Differences
3. Added Models
4. Addition output ratings for new models
5. Changed Y-Capacitors, X-Capacitors, and Varistors sources.
6. Changed Chokes (LF1, LF2)
7. Added alternate Bobbin sources of Chokes (L1, L2, L3) and Transformer (T3).
8. Correction address of factory, manufacturer and applicant
9. Addition factory
10. Added alternate sources for Insulating Tubing/Sleeving, Silicone Rubber/Silicone Insulator, and Insulation Sheet.

**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: 2021-05-03 Signature:
Original Issue Date: 2019-08-19 Jan-Erik Storgaard

Ref. Certif. No.

**DK-86811-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 | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891Taiwan |
| Name and address of the manufacturer | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 24891Taiwan |
| Name and address of the factory<br>Note: *When more than one factory, please report on page 2* | MEAN WELL Enterprises Co., Ltd.<br>No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan<br>☒ Additional Information on page 2 |
| Ratings and principal characteristics | See Page 2 |
| Trademark (if any) | MEAN WELL |
| Type of Customer's Testing Facility (CTF) Stage used | |
| Model / Type Ref. | PHP-3500-24, PHP-3500-24CAN, PHP-3500-48, PHP-3500-48CAN |
| Additional information (if necessary may also be reported on page 2) | Additionally evaluated to EN 62368-1:2014/A11:2017; National Differences specified in the CB Test Report.<br>☐ Additional Information on page 2 |
| A sample of the product was tested and found to be in conformity with | IEC 62368-1:2014 |
| As shown in the Test Report Ref. No. which forms part of this Certificate | 1906039-1-CB issued on 2019-08-15 |

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: 2019-08-19

Signature:

Jan-Erik Storgaard

Ref. Certif. No.

**DK-86811-UL**

Factories:
MEAN WELL (Guangzhou) Electronics Co., Ltd Huadu Branch
No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou,
China

SuZhou MEAN WELL Technology Co., Ltd.
No. 77, Jian-min Road, Dong-qiao, Pan-yang Ind. Park, Huang-dai Town, Xiang-cheng District, Suzhou, Jiangsu
215152,
P.R. China

Ratings:
For Models PHP-3500-24, PHP-3500-24CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 24Vdc, 72.5A
Input: 200-240Vac, 20A, 50/60Hz, Output: 24Vdc, 145A
For Models PHP-3500-48, PHP-3500-48CAN:
Input: 100-120Vac, 21A, 50/60Hz, Output: 48Vdc, 36.5A
Input: 200-240Vac, 20A, 50/60Hz, Output: 48Vdc, 73A

## 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: 2019-08-19

Signature:

Jan-Erik Storgaard