

CERTIFICATE

Issued to:
Applicant:
MEAN WELL Enterprises Co., Ltd.
No.28, Wuquan 3rd Rd, Wugu District
24891 New Taipei City, Taiwan

Licensee:
MEAN WELL Enterprises Co., Ltd.
No.28, Wuquan 3rd Rd, Wugu District
24891 New Taipei City, Taiwan

Product : Independent LED controlgears
Trade name(s) : MEAN WELL
Type(s)/model(s) : NPF-xy-z, PWM-x-y, PWM-60-yDA, PWM-60-yDA2, PWM-60-xyzz

The product and any acceptable variation thereto as specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 61347-1:2015/A1:2021 and EN IEC 62384:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2175773

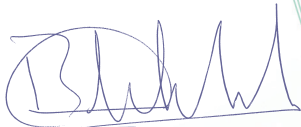
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration and under the conditions of the ENEC certification agreement.

This certificate is issued on 7 June 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-116654 REV.1

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



C. Lin
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Independent LED controlgears
Trade name(s)	: MEAN WELL
Type(s)/model(s)	: NPF-40-12, NPF-40-15, NPF-40-20, NPF-40-24, NPF-40-30, NPF-40-36, NPF-40-42, NPF-40-48, NPF-40-54, NPF-40D-12, NPF-40D-15, NPF-40D-20, NPF-40D-24, NPF-40D-30, NPF-40D-36, NPF-40D-42, NPF-40D-48, NPF-40D-54, NPF-60-12, NPF-60-15, NPF-60-20, NPF-60-24, NPF-60-30, NPF-60-36, NPF-60-42, NPF-60-48, NPF-60-54, NPF-60D-12, NPF-60D-15, NPF-60D-20, NPF-60D-24, NPF-60D-30, NPF-60D-36, NPF-60D-42, NPF-60D-48, NPF-60D-54, PWM-40-12, PWM-40-24, PWM-40-36, PWM-40-48, PWM-60-12, PWM-60-12DA, PWM-60-12DA2, PWM-60-12KNBSTzz, PWM-60-12KNzz, PWM-60-24, PWM-60-24DA, PWM-60-24DA2, PWM-60-24KNBSTzz, PWM-60-24KNzz, PWM-60-36 and PWM-60-48
Rated input voltage	: 100-240 V~
Rated frequency	: 50/60 Hz
Class of insulation	: Class II
Power factor	: 0,95
Max. case temperature (tc)	: 85 °C
Ambient temperature (ta)	: 50 °C
Additional information	: Independent SELV, thermal protection: 110 °C, constant voltage type, MM mark, EL mark (only for PWM-60-12DA2, PWM-60-24 DA2)

Product data – type NPF-40-12, NPF-40D-12 and PWM-40-12

Rated input current	: 0,6 A
Degree of protection	: IP67
Output rating	: 12 Vdc, 3,34 A

Product data – type NPF-40-15 and NPF-40D-15

Rated input current	: 0,6 A
Degree of protection	: IP67
Output rating	: 15 Vdc, 2,67 A

Product data – type NPF-40-20 and NPF-40D-20

Rated input current	: 0,6 A
Degree of protection	: IP67
Output rating	: 20 Vdc, 2,0 A

Product data – type NPF-40-24, NPF-40D-24 and PWM-40-24

Rated input current	: 0,6 A
Degree of protection	: IP67
Output rating	: 24 Vdc, 1,67 A

Product data – type NPF-40-30 and NPF-40D-30

Rated input current	: 0,6 A
Degree of protection	: IP67
Output rating	: 30 Vdc, 1,34 A

Product data – type NPF-40-36, NPF-40D-36 and PWM-40-36

Rated input current : 0,6 A
Degree of protection : IP67
Output rating : 36 Vdc, 1,12 A

Product data – type NPF-40-42 and NPF-40D-42

Rated input current : 0,6 A
Degree of protection : IP67
Output rating : 42 Vdc, 0,96 A

Product data – type NPF-40-48, NPF-40D-48 and PWM-40-48

Rated input current : 0,6 A
Degree of protection : IP67
Output rating : 48 Vdc, 0,84 A

Product data – type NPF-40-54 and NPF-40D-54

Rated input current : 0,6 A
Degree of protection : IP67
Output rating : 54 Vdc, 0,76 A

Product data – type NPF-60-12, NPF-60D-12, PWM-60-12, PWM-60-12DA and PWM-60-12DA2

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 12 Vdc, 5,0 A

Product data – type NPF-60-15 and NPF-60D-15

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 15 Vdc, 4,0 A

Product data – type NPF-60-20 and NPF-60D-20

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 20 Vdc, 3,0 A

Product data – type NPF-60-24, NPF-60D-24, PWM-60-24, PWM-60-24DA and PWM-60-24DA2

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 24 Vdc, 2,5 A

Product data – type NPF-60-30 and NPF-60D-30

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 30 Vdc, 2,0 A

Product data – type NPF-60-36, NPF-60D-36 and PWM-60-36

Rated input current : 0,8 A
Degree of protection : IP67

Output rating : 36 Vdc, 1,67 A

Product data – type NPF-60-42 and NPF-60D-42

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 42 Vdc, 1,43 A

Product data – type NPF-60-48, NPF-60D-48 and PWM-60-48

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 48 Vdc, 1,25 A

Product data – type NPF-60-54 and NPF-60D-54

Rated input current : 0,8 A
Degree of protection : IP67
Output rating : 54 Vdc, 1,12 A

Product data – type PWM-60-12KNBSTzz and PWM-60-12KNzz

Rated input current : 0,8 A
Degree of protection : IP20
Output rating : 12 Vdc, 5,0 A

Product data – type PWM-60-24KNBSTzz and PWM-60-24KNzz

Rated input current : 0,8 A
Degree of protection : IP20
Output rating : 24 Vdc, 2,5 A

TESTS

Test requirements

EN 61347-2-13:2014
EN 61347-2-13:2014/A1:2017
EN 61347-1:2015
EN 61347-1:2015/A1:2021
EN IEC 62384:2020

Test result

The test results are laid down in DEKRA test file 490308200.

Additional information

Note:

1) NPF-xy-z:

The "x" in the model name can be 40 or 60 to denote output wattage in watt;

The "y" in the model name can be D or blank to denote with dimming function (D) or without (blank);

The "z" in the model name can be 12, 15, 20, 24, 30, 36, 42, 48 or 54 to denote output voltage in volt.

2) PWM-x-y:

The "x" in the model name can be 40 or 60 to denote output wattage in watt;

The "y" in the models name can be 12, 24, 36 or 48 to denote output voltage in volt.

3) PWM-60-yDA, PWM-60-yDA2:

The "y" in the models name can be 12 or 24 to denote output voltage in volt.

4) PWM-60-xyzz

The "x" in the models name can be 12 or 24 to denote output voltage in volt.

The "y" in the models name can be KN or KNBST to denote with or without connector on KNX dimming wire.

The "z" in the models name can be blank, 0-9 or A to Z, denote different encryption protocol for KNX program.

This certificate replaces certificate No. 35-116654 which we hereby declare invalid.

The list of components is laid down in test report 4903082.50, 4903082.51.

Conclusion

The examination proved that all requirements were met.

Factory location

MEAN WELL (GUANGZHOU) Electronics Co., Ltd.

No.11 Jingu South Road, Huadu District,

510890 Guangzhou Guangdong, China

Trade name(s) : MEAN WELL stands for

