

# 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) : HBG-160-xDA, HBG-200-xy

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

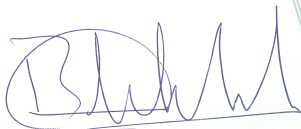
DEKRA hereby grants the right to use the ENEC certification mark.

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 17 May 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-101864 REV.1

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



K. Lin  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Independent LED controlgears
Trade name(s)	: MEAN WELL
Type(s)/model(s)	: HBG-160-24DA, HBG-160-36DA, HBG-160-48DA, HBG-160-60DA, HBG-200-36, HBG-200-36A, HBG-200-36AB, HBG-200-36B, HBG-200-36DA, HBG-200-48, HBG-200-48A, HBG-200-48AB, HBG-200-48B, HBG-200-48DA, HBG-200-60, HBG-200-60A, HBG-200-60AB, HBG-200-60B and HBG-200-60DA
Rated input voltage	: 100-240 V~
Rated frequency	: 50/60 Hz
Power factor	: 0,95
Max. case temperature (tc)	: 85 °C
Ambient temperature (ta)	: 60 °C
Class of insulation	: Class I
Additional information	: Constant voltage mode and constant current mode; Thermal, short-circuit and overload protection; with MM signs;

**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 490140200.

**Additional information**

Model reference:

HBG-160-xDA, HBG-200-xy

The "x" in the models name HBG-160-xDA can be 24, 36, 48 or 60 to denote output voltage.

The "x" in the models name HBG-200-xy can be 36, 48 or 60 to denote output voltage.

The "y" in the models name HBG-200-xy can be Blank, A, B, AB or DA to denote function mode option.

This certificate replaces certificate No. 35-101864 which we hereby declare invalid.

The list of components is laid down in test report 4901402.50, 4901402.51.

**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


**Model list:**

Model No.	Input rating	Output rating	Transformer type
HBG-200-36y	100-240 V, 50/60 Hz, 1,9 A	Constant current mode: 21,6-36 Vdc, 37,8 Vdc max., 4,4 A Rated Power: 158,4 W (when input 100-200 Vac) 5,5 A Rated Power: 198 W (when input 200-240 Vac) Constant voltage mode: 36 Vdc, 0-4,4 A Rated Power: 158,4 W (when input 100-200 Vac) 0-5,5 A Rated Power: 198 W (when input 200-240 Vac)	TF-6837
HBG-200-48y		Constant current mode: 28,8-48 Vdc, 50,4 Vdc max., 3,3 A Rated Power: 158,4 W (when input 100-200 Vac) 4,1 A Rated Power: 196,8 W (when input 200-240 Vac) Constant voltage mode: 48 Vdc, 0-3,3 A Rated Power: 158,4 W (when input 100-200 Vac) 0-4,1 A Rated Power: 196,8 W (when input 200-240 Vac)	TF-6838
HBG-200-60y		Constant current mode: 36-60 Vdc, 63 Vdc max., 2,6 A Rated Power: 156 W (when input 100-200 Vac) 3,3 A Rated Power: 198 W (when input 200-240 Vac) Constant voltage mode: 60 Vdc, 0-2,6 A Rated Power: 156 W (when input 100-200 Vac) 0-3,3 A Rated Power: 198 W (when input 200-240 Vac)	TF-6839

Model No.	Input rating	Output rating	Transformer type
HBG-160-24DA	100-240 V, 50/60 Hz, 1,7 A	Constant current mode: 14,4-24 Vdc, 25,2 Vdc max., 6,5 A Rated Power: 156 W Constant voltage mode: 24 Vdc, 0-6,5 A Rated Power: 156 W	TF-6842
HBG-160-36DA		Constant current mode: 21,6-36 Vdc, 37,8 Vdc max., 4,4 A Rated Power: 158,4	TF-6837

		W Constant voltage mode: 36 Vdc, 0-4,4 A Rated Power: 158,4 W	
HBG-160-48DA		Constant current mode: 28,8-50 Vdc, 50,4 Vdc max., 3,3 A Rated Power: 158,4 W Constant voltage mode: 48 Vdc, 0-3,3 A Rated Power: 158,4 W	TF-6838
HBG-160-60DA		Constant current mode: 36-60 Vdc, 63 Vdc max., 2,6 A Rated Power: 156 W Constant voltage mode: 60 Vdc, 0-2,6 A Rated Power: 156 W	TF-6839

**Model Encoding:**

HBG-160-xDA, HBG-200-xy

The “x” in the models name HBG-160-xDA can be 24, 36, 48 or 60 to denote output voltage.

The “x” in the models name HBG-200-xy can be 36, 48 or 60 to denote output voltage.

The “y” in the models name HBG-200-xy can be Blank, A, B, AB or DA to denote function mode option.

Blank: Cable for I/O connection.

A: Constant current level can be adjusted through internal potentiometer.

B: Constant current level adjustable through output cable with 0-10 Vdc or 10 V PWM signal or resistance.

AB: Constant current level can be adjusted through internal potentiometer or output cable with 0-10 Vdc or 10 V PWM signal or resistance.

DA: DALI function

**Model difference:**

Function mode	Main PCB	Dimming PCB	Diming/DA wire	Rear cover (with or without plastic cap)	IP
Blank	Same	Without	Without	Without	67
A	Same	Without	Without	With	65
B	Same	B type	With	Without	67
AB	Same	B type	With	With	65
DA	Same	DA type	With	Without	67