

# CERTIFICATE

Issued to:  
Applicant:  
**MEAN WELL Enterprises Co., Ltd.**  
No.28, Wuquan 3rd Road, Wugu District  
24891 New Taipei City 248, Taiwan

Manufacturer/Licensee:  
**MEAN WELL Enterprises Co., Ltd.**  
No.28, Wuquan 3rd Road, Wugu District  
24891 New Taipei City 248, 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 is 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 the standard EN 61347-1:2015, EN 61347-2-13:2014 and EN 61347-2-13:2014/A1:2017
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a 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 of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 1 November 2017 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-101864

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



Henk Schendstok  
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~
Nature of supply	: a.c.
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 61347-1:2015

EN 61347-2-13:2014

EN 61347-2-13:2014/A1:2017

**Test result**

The test results are laid down in DEKRA test file 433939600.

**Additional Information**

The products also considers EN 62384:2006 + A1:2009.

The list of components is laid down at test report 4339396.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

MEAN WELL (Guangzhou) Electronics Co.,Ltd. Huadu Branch  
No.11 Jingu South Road, Huadong Town, Huadu District,  
Guangzhou City, Guangdong Province, 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
HBG-160-24DA		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:	TF-6837

		158.4 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