





(for DA type only) CCC optional) CCC optional)

### Features

- · Constant Voltage + Constant Current mode output
- · Circular metal housing with class I design
- Built-in active PFC function
- · IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

### Applications

- · LED high/low bay lighting
- · LED canopy lighting
- · LED stage lighting
- · LED spot lighting
- Outdoor architectural lighting system
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

### GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

### Description

HBG-200 series is a 200W AC/DC LED driver featuring the circular shape design. It operates from 90~305VAC and offers the dual modes constant voltage and constant current output models with different rated voltage between 36Vand 60V. Thanks to the high efficiency up to 93.5%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C ~  $+85^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HBG-200 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

### Model Encoding HBG - 200 - 36

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		<ul> <li>Function mode option</li> </ul>
		<ul> <li>Rated output voltage(36/48/60V)</li> </ul>
		<ul> <li>Rated wattage</li> </ul>
		<ul> <li>Series name</li> </ul>

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Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer with 3 in 1 dimming function	In Stock
DA	IP67	DALI control technology.	In Stock

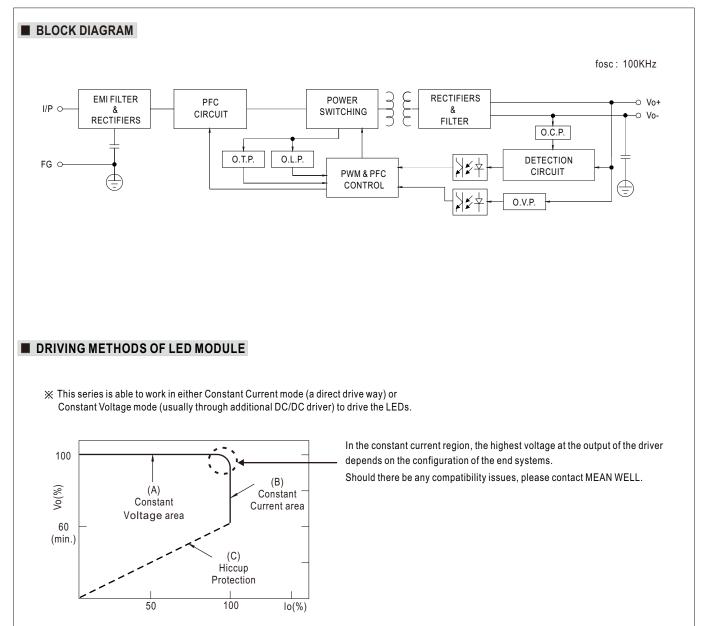


#### SPECIFICATION

SPECIFICATION MODEL		HBG-200-36	HBG-200-48	HBG-200-60			
WODEL							
-	DC VOLTAGE	36V	48V	60V			
	CONSTANT CURRENT REGION Note.2		28.8 ~ 48V	36~60V			
	RATED CURRENT	5.5A	4.1A	3.3A			
	RATED POWER	198W	196.8W	198W			
	RIPPLE & NOISE (max.) Note.3	250mVp-p	250mVp-p	350mVp-p			
	CURRENT ADJ. RANGE	Adjustable for A-Type and AB-Type (via bui	It-in potentiometer)				
	CURRENTADJ. RANGE	3.3 ~ 5.5A	2.46 ~ 4.1A	1.98 ~ 3.3A			
	VOLTAGE TOLERANCE Note.4	±2.0%					
	LINE REGULATION	±0.5%					
	LOAD REGULATION	±1.0%					
	SETUP, RISE TIME Note.6	2500ms.200ms /115VAC 500ms.200ms /230VAC					
	HOLD UP TIME (Typ.)	12ms /115VAC, 230VAC					
		90 ~ 305VAC 127~417VDC					
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127~417VDC (Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE						
	FREQUENCI RANGE	47 ~ 63Hz					
	POWER FACTOR	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)					
	EFFICIENCY (Typ.)	92%	93%	93.5%			
	AC CURRENT (Typ.)	1.9A / 115VAC 1A / 230VAC 0.9A /	277VAC				
	INRUSH CURRENT (Typ.)	COLD START 85A(twidth=600µs measured a	at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A		. , .				
		4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	OVER CURRENT	95~108% Constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCUIT		ecovers automatically after fault condition is	removed			
PROTECTION		41 ~ 47V	54 ~ 62V	65 ~ 75V			
	OVER VOLTAGE			00 100			
		Shut down o/p voltage with auto-recovery or re-power on to recovery					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down					
-	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+85°C					
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL8750(type"HL"),CSA C22.2 No.250.13-12,ENEC BS EN/EN61347-1,BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.14, GB19510.1; EAC TP TC 004,IP65 or IP67 approved					
	DALI STANDARDS	Compliance to IEC62386-101, 102, 207 for DA type only					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%) ; BS EN/EN61000-3-3; GB/T 17743, GB17625.1, EAC TP TC 020					
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity:Line-Earth:4KV,Line-Line:2KV),EAC TP TC 020					
	MTBF	2042.7K hrs min. Telcordia SR-332 (Bellcore) ;207.4K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	Refer to mechanical specification		-,			
OTHERS		1.53Kg; 8pcs/13.8Kg/1.61CUFT					
	PACKING		roted current and $25^{\circ}$ of embient terms	turo			
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 70°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> <li>For AVAB type need to consider build-in using or filing the lo adjusting hole with the potting compound to comply with Type HL application.</li> <li>K product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>						

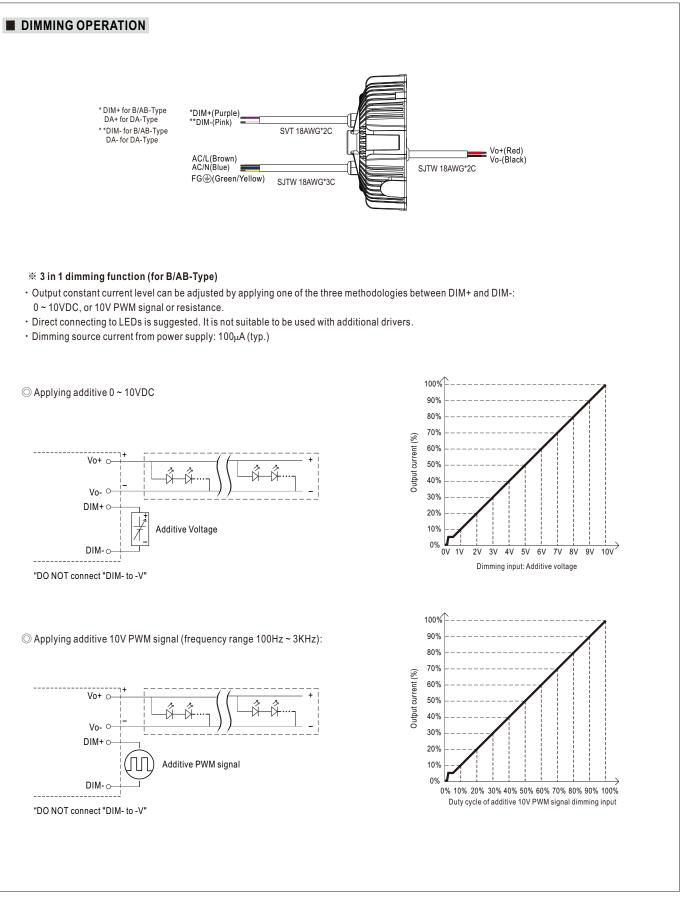


# HBG-200 series

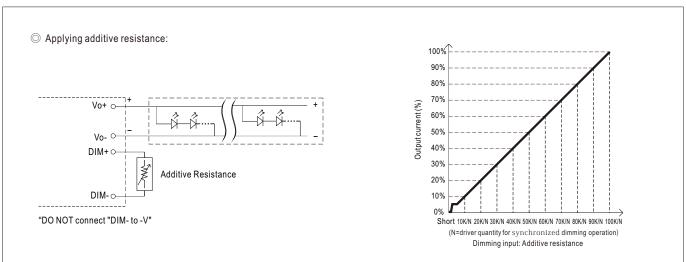


Typical output current normalized by rated current (%)

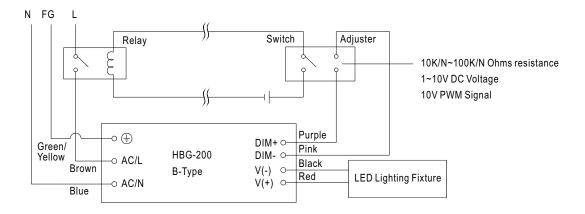








- Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%. 2. The output current could drop down to 0% when dimming input is about 0k Ω or 0Vdc, or 10V PWM signal with 0% duty cycle.
- Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



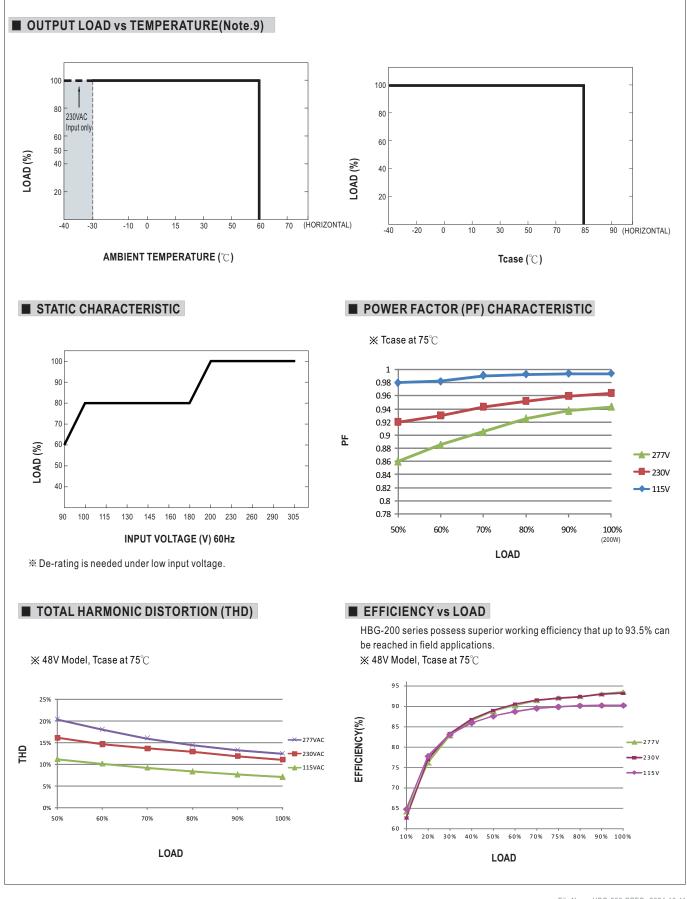
Using a switch and relay can turn ON/OFF the lighting fixture.

**※ DALI Interface (primary side; for DA-Type)** 

- · Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.



HBG-200 series

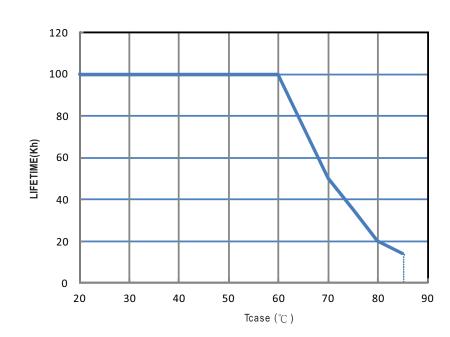


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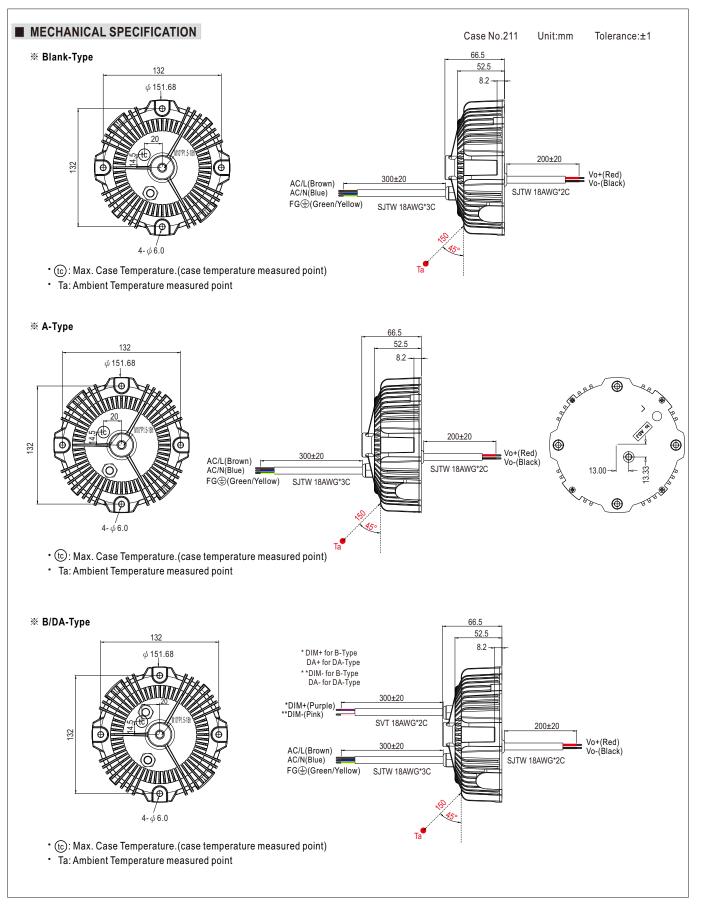
HBG-200 series





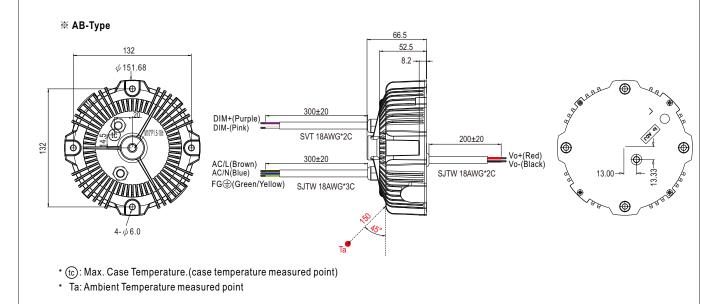


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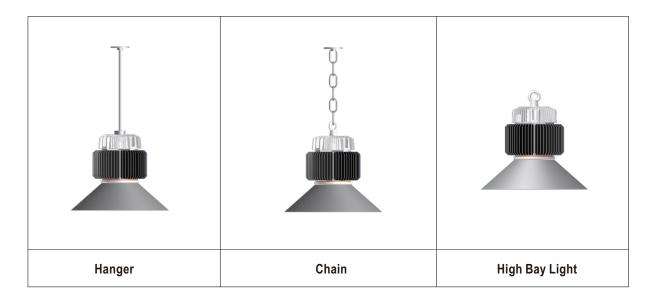




### HBG-200 series



### ■ INSTALLATIONS



### Caution

- \* Please inspect the appearance of the driver if the package is damaged. There should not be any cracks.
- \* Please do not drop or bump the driver.
- \* All screws including the suspension screw should be paired with a spring washer and locked tight.
- \* The entire luminaire, including the driver, should be limited to 10Kg or less.
- \* The luminaire should be cautiously protected from damage due to shock throughout packaging and transportation.
- \* Please thoroughly follow the preceding cautionary notes to prevent the luminaire from falling, leading to injuries.

#### ■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html