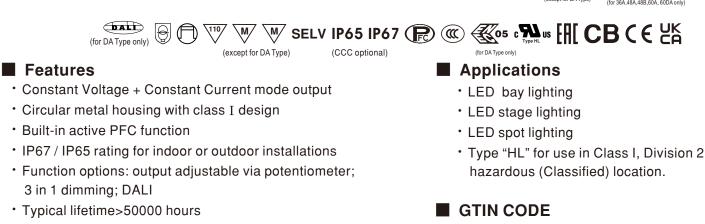


HBG-160 series 160W Constant Voltage + Constant Current LED Driver User's Manual . 🗖



5 years warranty

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

IS 15885(Part 2/Sec13) 8 R-41027766

Description

HBG-160 series is a 160W 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 24Vand 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-160 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding 160

HBG - 160 - 36	Α
	Function mode option
	——— Rated output voltage(24/36/48/60V)
	Rated wattage
	Series name

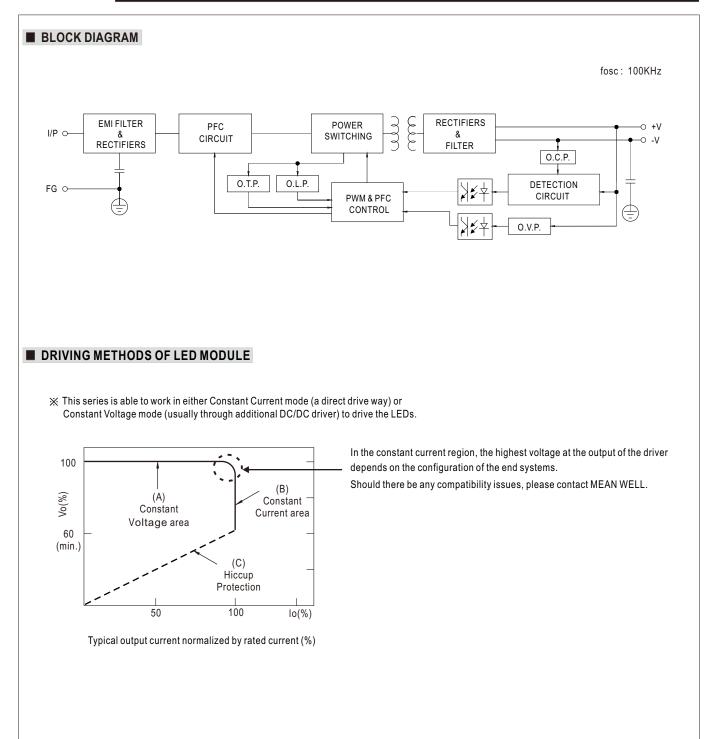
Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer with 3 in 1 dimming function	In Stock
DA	IP67	DALI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



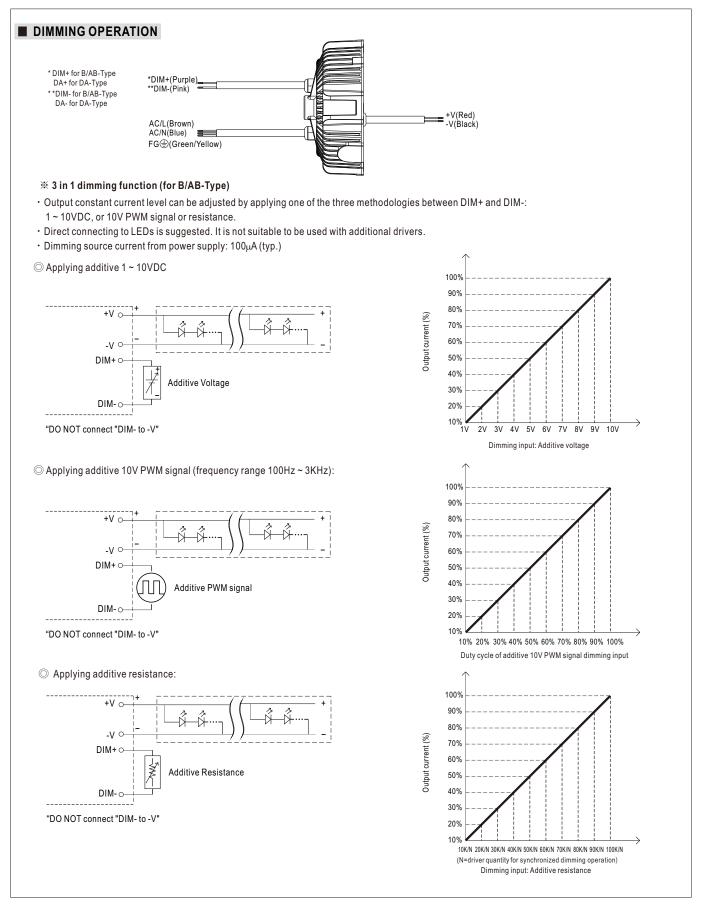
SPECIFICATION

MODEL		HBG-160-24	HBG-160-36	HBG-160-48	HBG-160-60			
	DC VOLTAGE	24V	36V					
	CONSTANT CURRENT REGION Note.2	14.4 ~ 24V	21.6 ~ 36V	28.8~48V	36~60V			
	RATED CURRENT	6.5A	4.4A	3.3A	2.6A			
	RATED POWER	156W	158.4W	158.4W	156W			
	RIPPLE & NOISE (max.) Note.3		300mVp-p	300mVp-p	300mVp-p			
OUTPUT	CURRENT ADJ. RANGE	Adjustable for A/AB-Type (via	, ,					
		3.9 ~ 6.5A	2.6 ~ 4.4A	1.98 ~ 3.3A	1.6~2.6A			
	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	(Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47~63Hz						
		PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC@full load						
	POWER FACTOR	(Please refer to "POWER FA						
		``	. ,	,				
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
			-					
	EFFICIENCY (Typ.) Note.7		92%	93%	93.5%			
	AC CURRENT (Typ.)	1.7A/115VAC 0.78A/2						
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=55	$50\mu s$ measured at 50% lpeak	() at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	1 unite (airquit broaker of tw	pe B) / 7 units (circuit breake	r of type C) at 220 VAC				
	CIRCUIT BREAKER			er of type C) at 250 VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC						
		95 ~ 108%						
	OVER CURRENT	So ~ 105% Constant current limiting, recovers automatically after fault condition is removed						
		Hiccup mode, recovers autor						
PROTECTION	SHORT CIRCUIT	28 ~ 34V	41 ~ 47V	54 ~ 62V	65 ~ 75V			
	OVER VOLTAGE				05~750			
		Shut down o/p voltage with a						
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
	WORKING TEMP.	Tcase=-40 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+85℃						
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cyc	le, period for 72min. each al	ong X, Y, Z axes				
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No.250.13-12, TUV BS EN/EN61347-1, BS EN/EN61347-2-13; BIS IS15885(for 36A, 48A, 48B, 60A, 60DA only), EAC TP TC 004, GB19510.1, GB19510.14, IP65 or IP67 approved						
	DALI STANDARDS	Compliance to IEC62386-10	1, 102, 207 for DA-Type only	1				
SAFETY &	WITHSTAND VOLTAGE	Compliance to IEC62386-101, 102, 207 for DA-Type only I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE							
	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	2047.8K hrs min. Telcordi	a SR-332 (Bellcore) ;194.1K	hrs min. MIL-HDBK-217F (25	°C)			
OTHERS	DIMENSION	ϕ 151.68mm *66.5mm (D * H)					
	PACKING	1.53Kg; 8pcs/13.8Kg/1.37CL	JFT					
NOTE	 Please refer to "DRIVING M Ripple & noise are measure Tolerance : includes set up t De-rating may be needed ui Length of set up time is measing The DA type power supply The driver is considered as by the complete installation, (as available on https://www This series meets the typica Please refer to the warrant The ambient temperature of 	ETHODS OF LED MODULE d at 20MHz of bandwidth by olerance, line regulation and in der low input voltages. Pleas asured at cold first start. Turni is less efficient than the typicz a component that will be oper the final equipment manufact meanwell.com//Upload/PDF// al life expectancy of >50,000 l y statement on MEAN WELL' lerating of 3.5°C/1000m with 1 d IP water proof function inst	" using a 12" twisted pair-wire load regulation. se refer to "STATIC CHARA ng ON/OFF the driver may al efficiency in specification I rated in combination with fin turers must re-qualify EMC EMI_statement_en.pdf) hours of operation when Tca s website at http://www.mea fanless models and of 5°C/1 allation caution, please refe	al equipment. Since EMC perfor Directive on the complete installa ase, particularly (to) point (or TMF anwell.com	parallel capacitor. ne. mance will be affected			





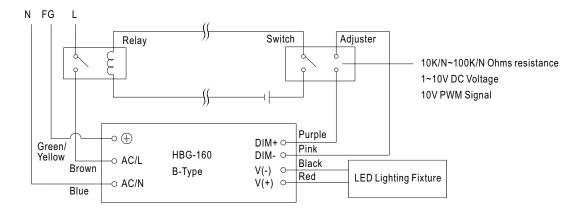






HBG-160 series

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.

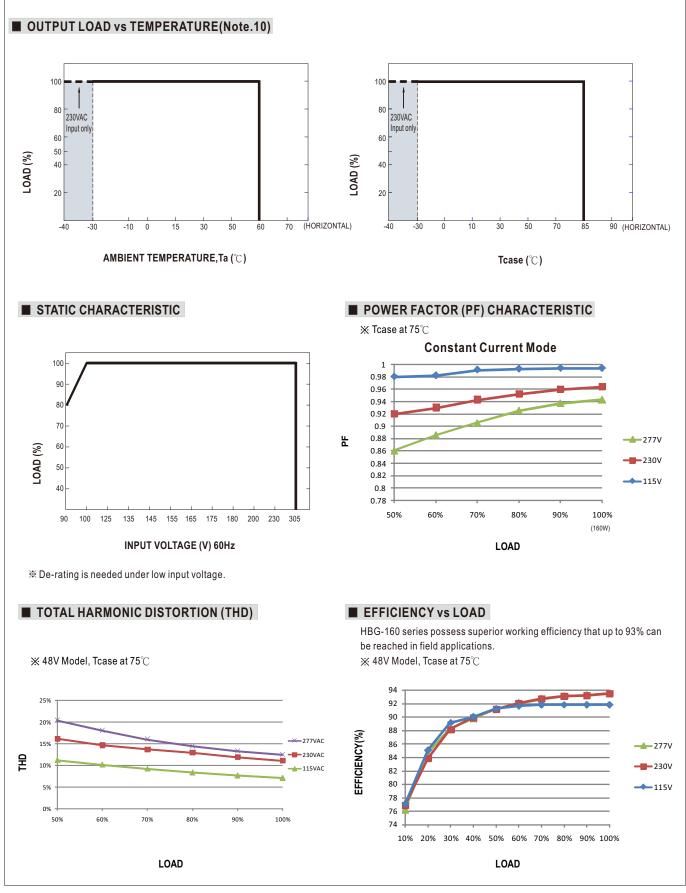


Using a switch and relay can turn ON/OFF the lighting fixture.

- **% 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.

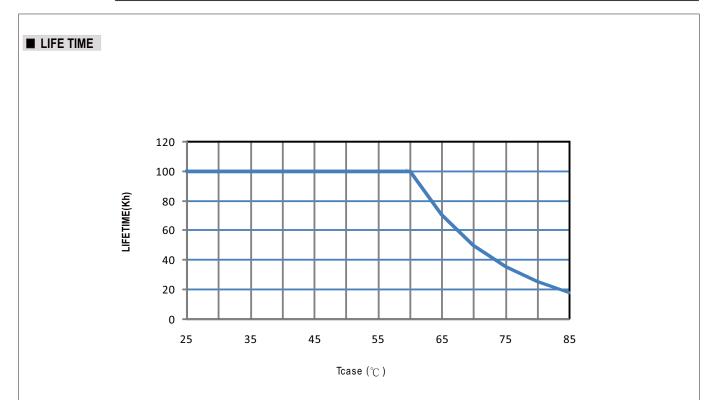


HBG-160 series

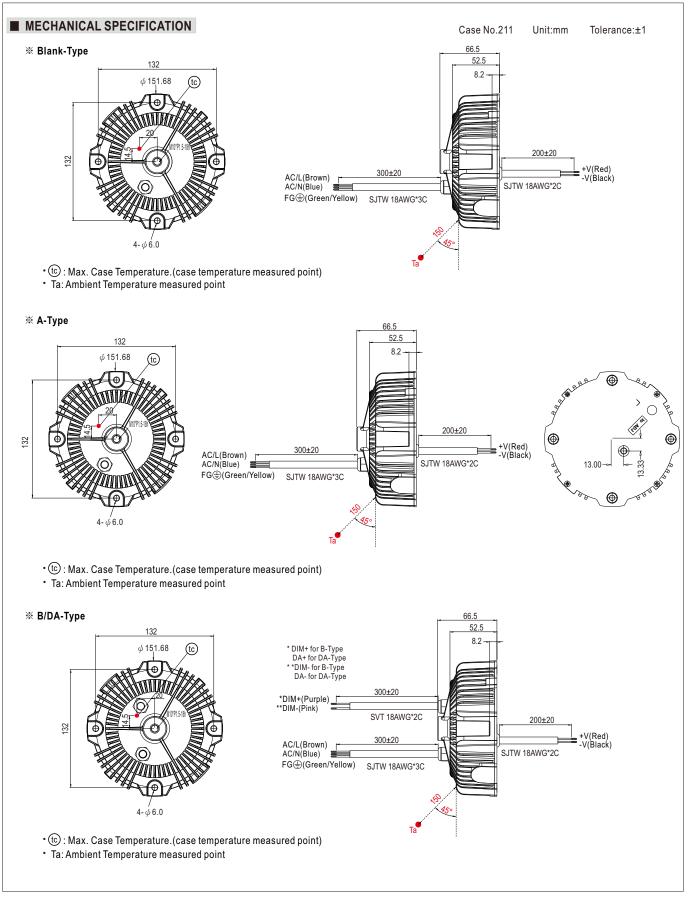


File Name:HBG-160-SPEC 2024-10-11



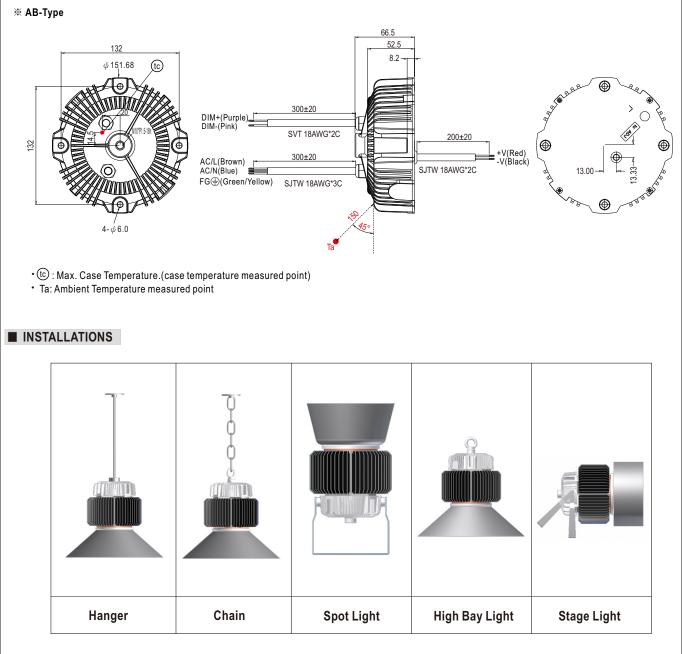








HBG-160 series



Caution

- Please inspect the appearance of the driver if the package is damaged. There should not be any cracks.
- $\cdot\,$ Please do not drop or bump the driver.
- $\cdot\,$ 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.