



- Typical lifetime>50000 hours
- 5 years warranty

GTIN CODE

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

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 4 ~ ~

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

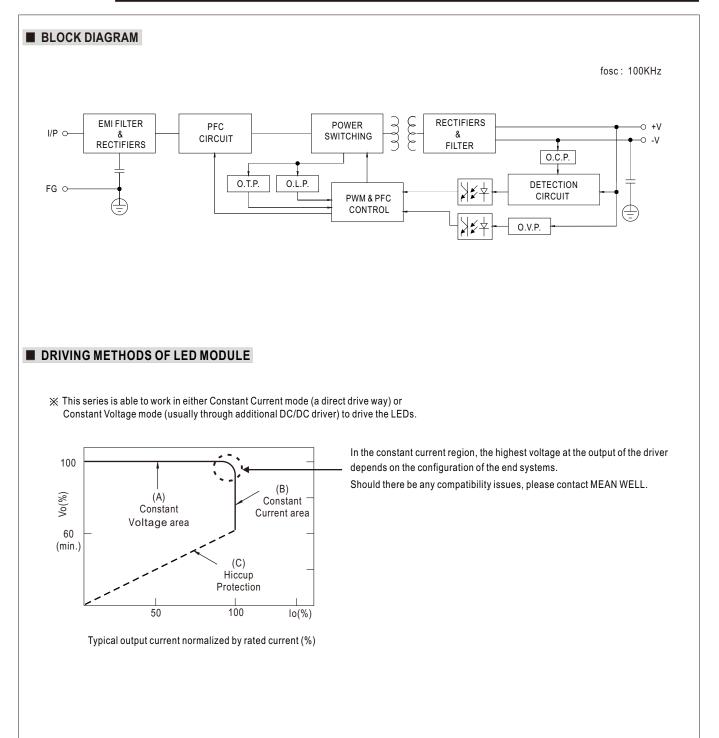
Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
A	IP65	lo adjustable through built-in potentiometer.	In Stock
В	IP67	3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer with 3 in 1 dimming function	In Stock
DA	IP67	DALI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



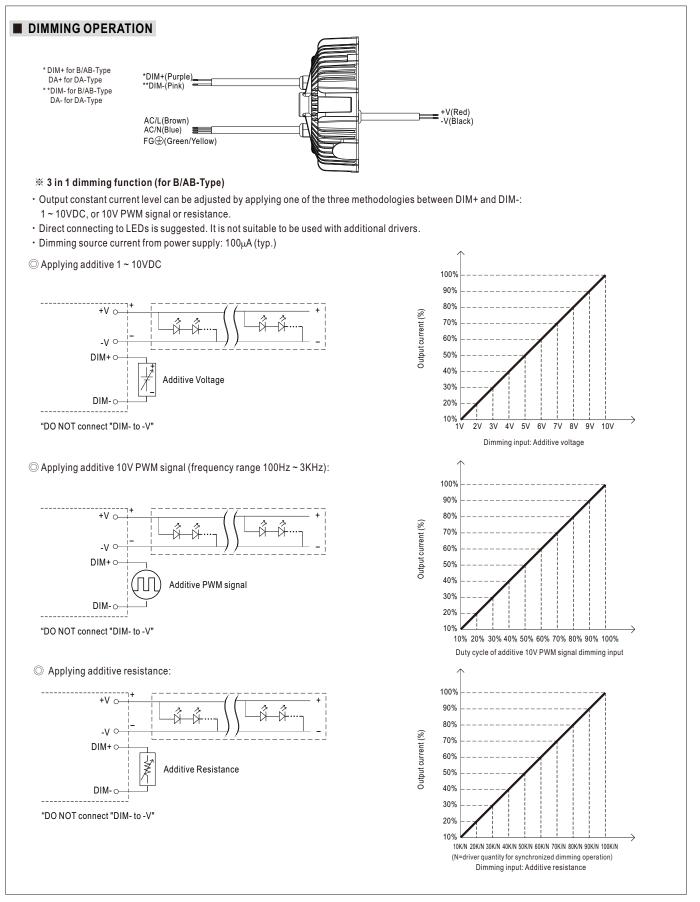
SPECIFICATION

MODEL		HBG-160-24	HBG-160-36	HBG-160-48	HBG-160-60			
	DC VOLTAGE	24V	36V	48V	60V			
	CONSTANT CURRENT REGION Note.2		21.6 ~ 36V	28.8 ~ 48V	36~60V			
-	RATED CURRENT	6.5A	4.4A	3.3A	2.6A			
		156W						
	RATED POWER		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	,					
	POWER FACTOR	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
INPUT	TOTAL HARMONIC DISTORTION	THD<20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
			-	j section)				
	EFFICIENCY (Typ.) Note.7	92%	92%	93%	93.5%			
	AC CURRENT (Typ.)	1.7A / 115VAC 0.78A / 23	30VAC 0.7A / 277VAC					
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=550)μs measured at 50% lpeak) a	at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	A constant (along the base along a fide on a		-{ + + +				
	CIRCUIT BREAKER	4 units (circuit breaker of type	B) / / Units (circuit breaker)	of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA/277VAC						
		95 ~ 108%						
	OVER CURRENT			andition in summer ad				
		Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION	SHORT CIRCUIT	· · ·			05 751/			
	OVER VOLTAGE	28 ~ 34V	41 ~ 47V	54 ~ 62V	65 ~ 75V			
		Shut down o/p voltage with au	· · · ·					
	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°C , 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle	, period for 72min. each alor	ig 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 IEC62386-101, 102, 207 for DA-Type only						
SAFETY &	WITHSTAND VOLTAGE							
		1/P-0/P:3.75KVAC 1/P-FG:2KVAC 0/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	2047.8K hrs min. Telcordia	SR-332 (Bellcore) ;194.1K hi	rs min. MIL-HDBK-217F (25°	C)			
OTHERS	DIMENSION	ϕ 151.68mm *66.5mm (D * H)						
	PACKING	1.53Kg; 8pcs/13.8Kg/1.37CUF	T					
NOTE	 Length of set up time is mea 7. The DA type power supply The driver is considered as by the complete installation, (as available on https://www This series meets the typic: 10. Please refer to the warrant 11. The ambient temperature complexity 12. For any application note ar 	ETHODS OF LED MODULE". d at 20MHz of bandwidth by us olerance, line regulation and lo nder low input voltages. Please asured at cold first start. Turning is less efficient than the typical a component that will be opera the final equipment manufactu .meanwell.com//Upload/PDF/EI al life expectancy of >50,000 h y statement on MEAN WELL's	sing a 12" twisted pair-wire to ad regulation. Prefer to "STATIC CHARACT g ON/OFF the driver may lea efficiency in specification by ted in combination with final rers must re-qualify EMC Di MI_statement_en.pdf) Durs of operation when Tcasa website at http://www.mean nless models and of 5 [°] C/100	erminated with a 0.1uf & 47uf p IERISTIC" sections for details. ad to increase of the set up tim 1%. equipment. Since EMC perfor rective on the complete installa e, particularly (to point (or TMF well.com 00m with fan models for opera	parallel capacitor. ne. mance will be affected			





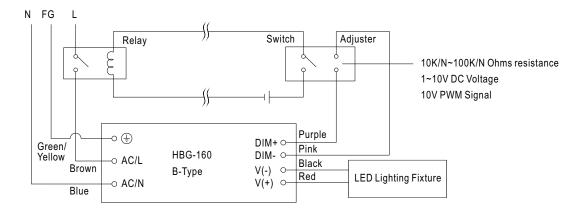






HBG-160 series

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.



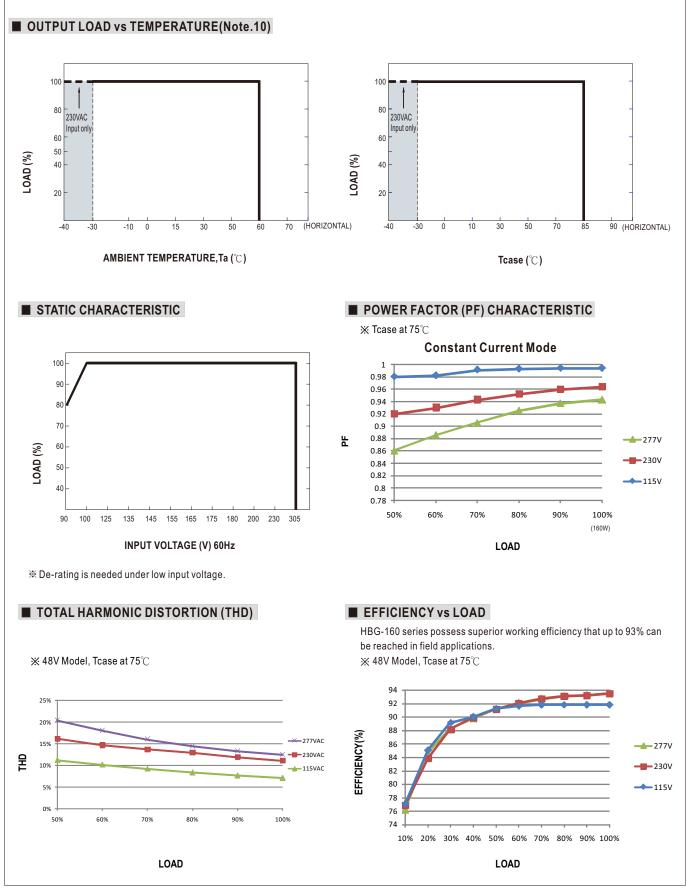
Using a switch and relay can turn ON/OFF the lighting fixture.

% 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.

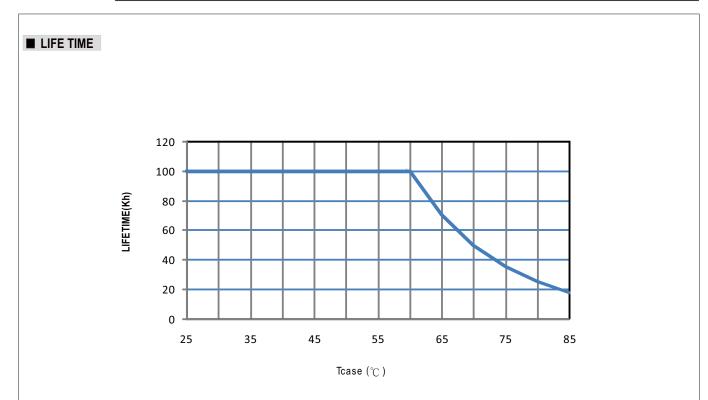


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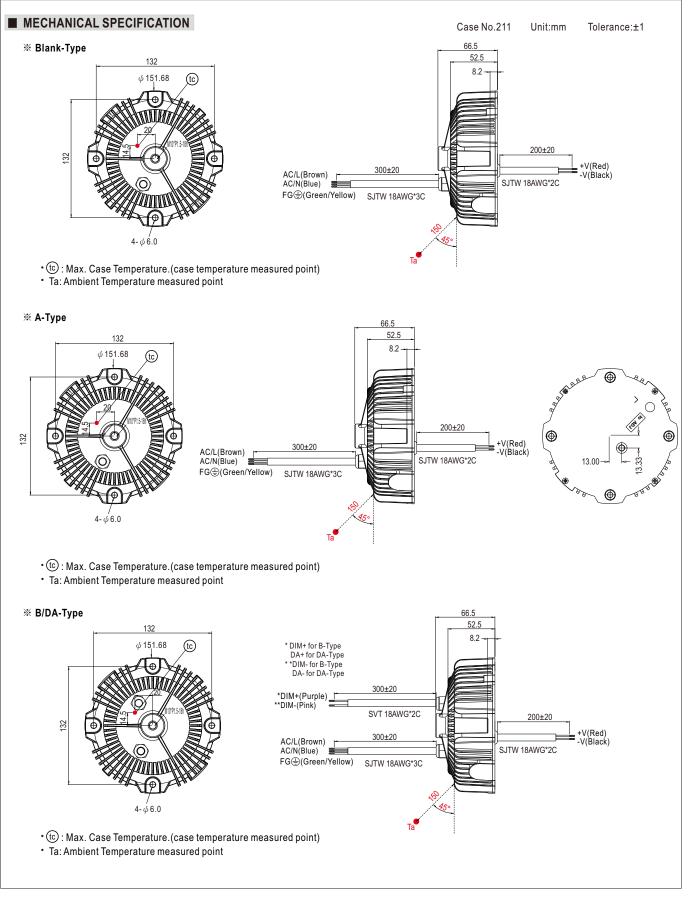


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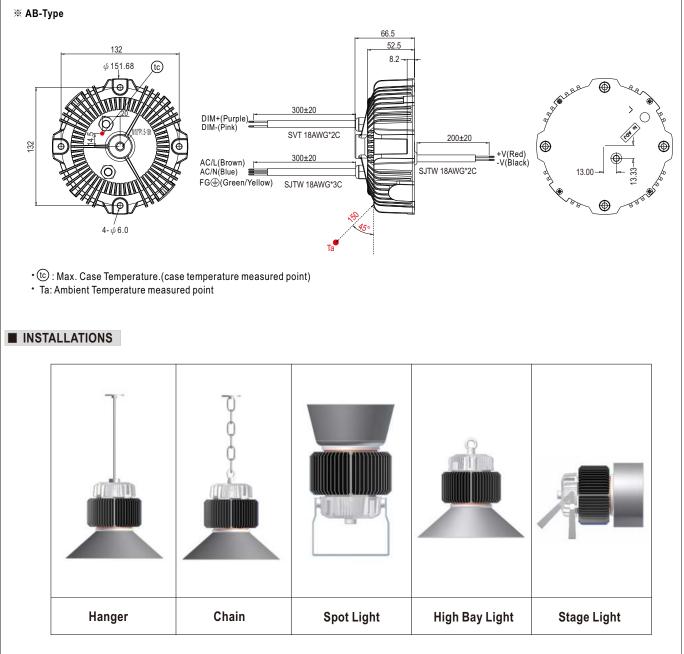








HBG-160 series



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.