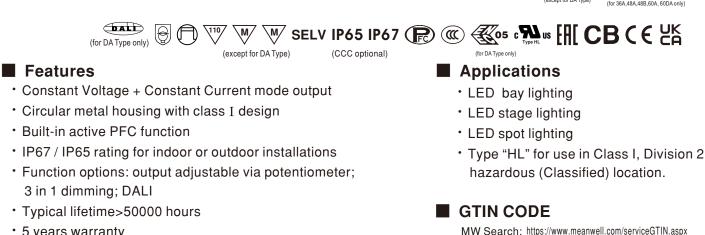


HBG-160 series 160W Constant Voltage + Constant Current LED Driver User's Manual . 🗖



5 years warranty

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

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

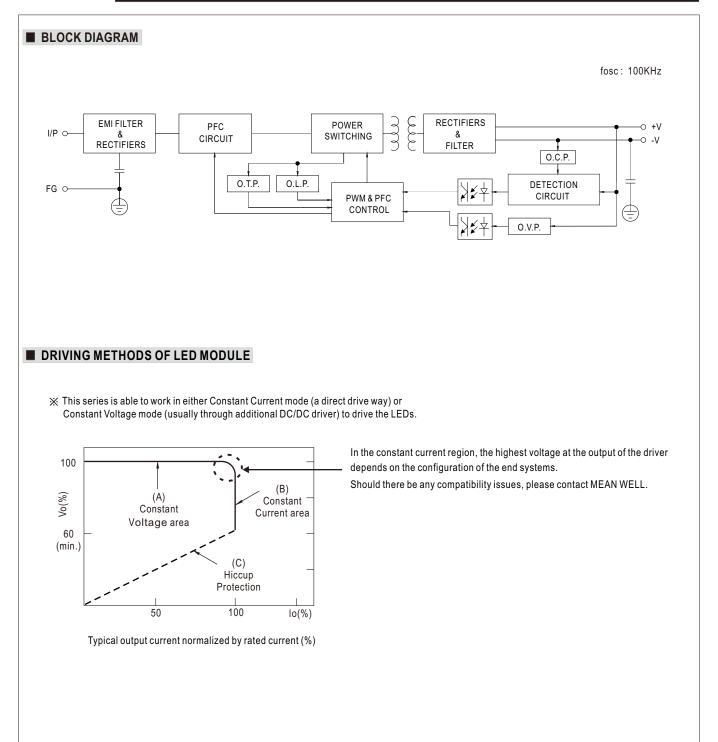
IS 15885(Part 2/Sec13) 8 R-41027766



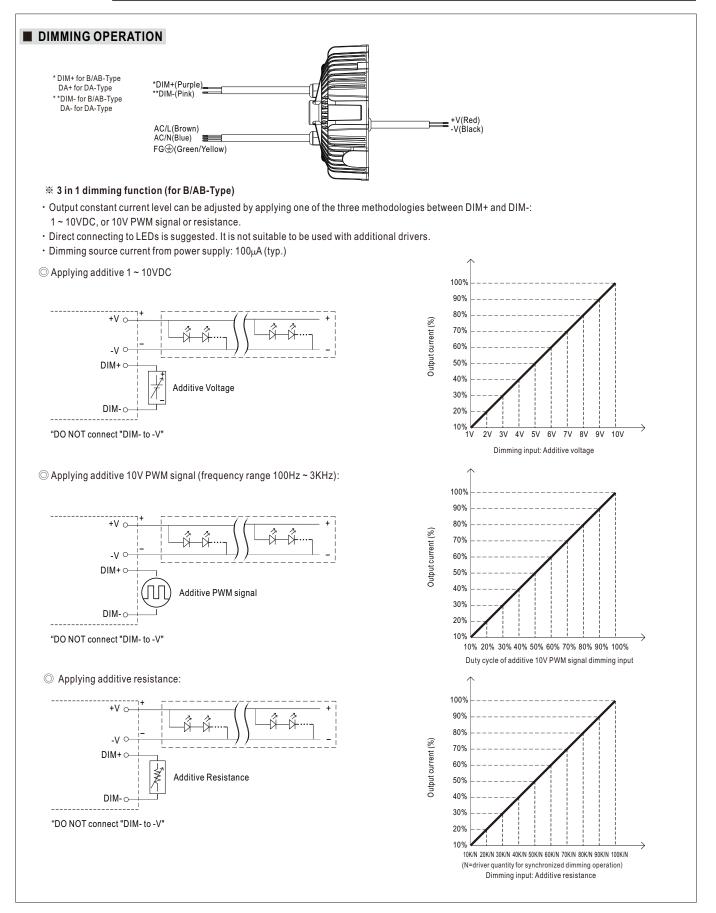
SPECIFICATION

MODEL	ON	HBG-160-24	HBG-160-36	HBG-160-48	HBG-160-60			
MODEL	DC VOLTAGE	24V	36V	48V	60V			
				28.8 ~ 48V	36~60V			
	CONSTANT CURRENT REGION Note.2		21.6 ~ 36V					
	RATED CURRENT	6.5A	4.4A	3.3A	2.6A			
	RATED POWER	156W	158.4W	158.4W	156W			
	RIPPLE & NOISE (max.) Note.3	200mVp-p	300mVp-p	300mVp-p	300mVp-p			
OUTPUT		Adjustable for A/AB-Type (via b	ouilt-in potentiometer)	-				
OUIPUI	CURRENT ADJ. RANGE	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							
	HOLD UP TIME (Typ.)	12ms /115VAC, 230VAC						
	101001 11112 (13)017							
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127~417VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	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.) Note.7	92%	92%	93%	93.5%			
	AC CURRENT (Typ.)	1.7A / 115VAC 0.78A / 23	1.11	I	<u> </u>			
	INRUSH CURRENT (Typ.)		us measured at 50% lpeak) at 23	0VAC: Per NEMA 410				
	MAX. No. of PSUs on 16A	· · ·	B) / 7 units (circuit breaker of typ	· · · · · · · · · · · · · · · · · · ·				
	CIRCUIT BREAKER							
	LEAKAGE CURRENT	<0.75mA/277VAC						
	OVER CURRENT	95 ~ 108%						
	OVER CORRENT	Constant current limiting, recov	vers automatically after fault conc	lition is removed				
	SHORT CIRCUIT	Hiccup mode, recovers automa	tically after fault condition is rem	oved				
PROTECTION		28 ~ 34V	41 ~ 47V	54 ~ 62V	65~75V			
	OVER VOLTAGE	Shut down o/p voltage with auto	p-recovery or re-power on to reco	overv	L			
	OVER TEMPERATURE		s automatically after temperature					
	WORKING TEMP.		er to " OUTPUT LOAD vs TEMPE	•				
	MAX. CASE TEMP.	Tcase=+85°C						
		20 ~ 95% RH non-condensing						
ENVIRONMENT	WORKING HUMIDITY							
	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, 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	I/P-O/P:3.75KVAC I/P-FG:2	KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION RESISTANCE		1 Ohms / 500VDC / 25°C / 70% F	стана. КН				
EMC	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 60%) ; BS EN/EN61000-3-3, GB17743 and 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 S	SR-332 (Bellcore) ;194.1K hrs mi	n. MIL-HDBK-217F (25℃)				
OTHERS	DIMENSION	φ 151.68mm *66.5mm (D * H)		()				
5E.	PACKING	1.53Kg; 8pcs/13.8Kg/1.37CUF	Г					
NOTE	 Please refer to "DRIVING M Ripple & noise are measure Tolerance : includes set up 	VETHODS OF LED MODULE" ed at 20MHz of bandwidth by u tolerance, line regulation and l	ising a 12" twisted pair-wire ter	ninated with a 0.1uf & 47uf p	arallel capacitor.			
	 Length of set up time is me The DA type power supply The driver is considered as by the complete installation This series meets the typic Please refer to the warran The ambient temperature of For any application note ar https://www.meanwell.com/ 	asured at cold first start. Turnir is less efficient than the typical of a component that will be oper, the final equipment manufactural life expectancy of >50,000 h ty statement on MEAN WELL's lerating of 3.5°C/1000m with far of IP water proof function install Upload/PDF/LED_EN.pdf	ng ON/OFF the driver may lead efficiency in specification by 1%. ated in combination with final equirers must re-qualify EMC Direct ours of operation when Tcase, s website at http://www.meanwe	to increase of the set up time quipment. Since EMC perform tive on the complete installat particularly to point (or TMP ell.com with fan models for operating ser manual before using.	e. nance will be affected			





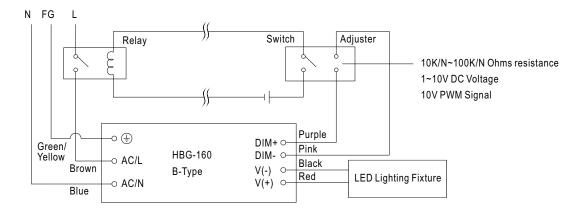






HBG-160 series

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.

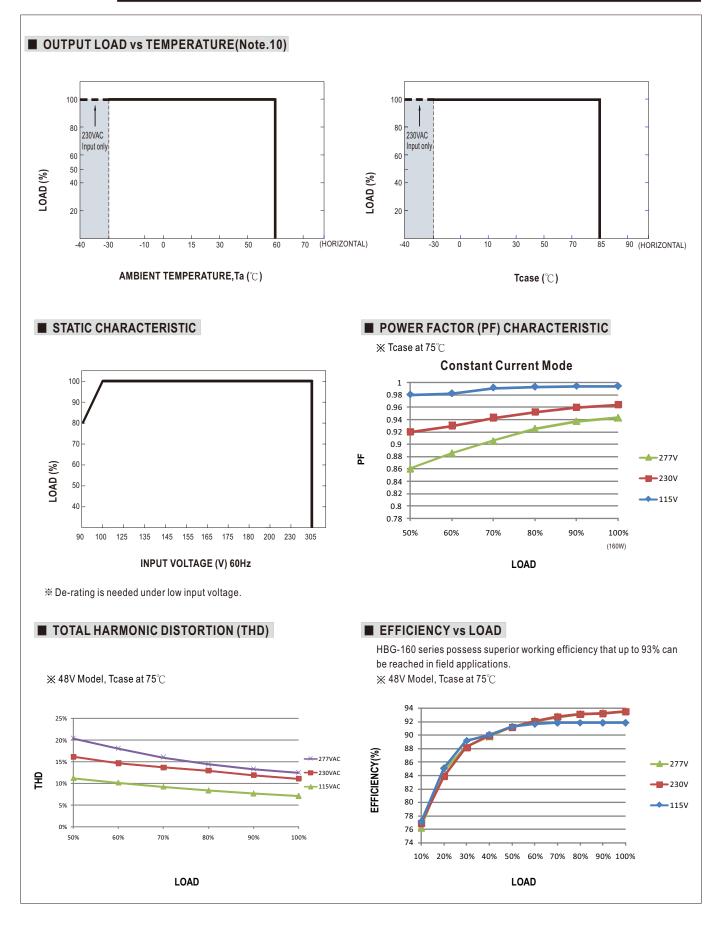


Using a switch and relay can turn ON/OFF the lighting fixture.

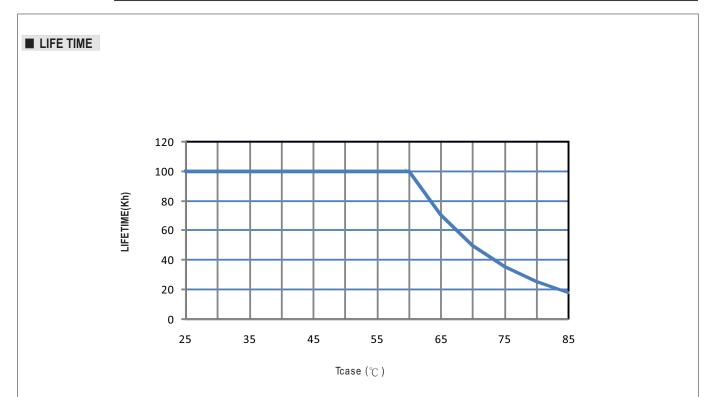
% DALI Interface (primary side; for DA-Type)

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

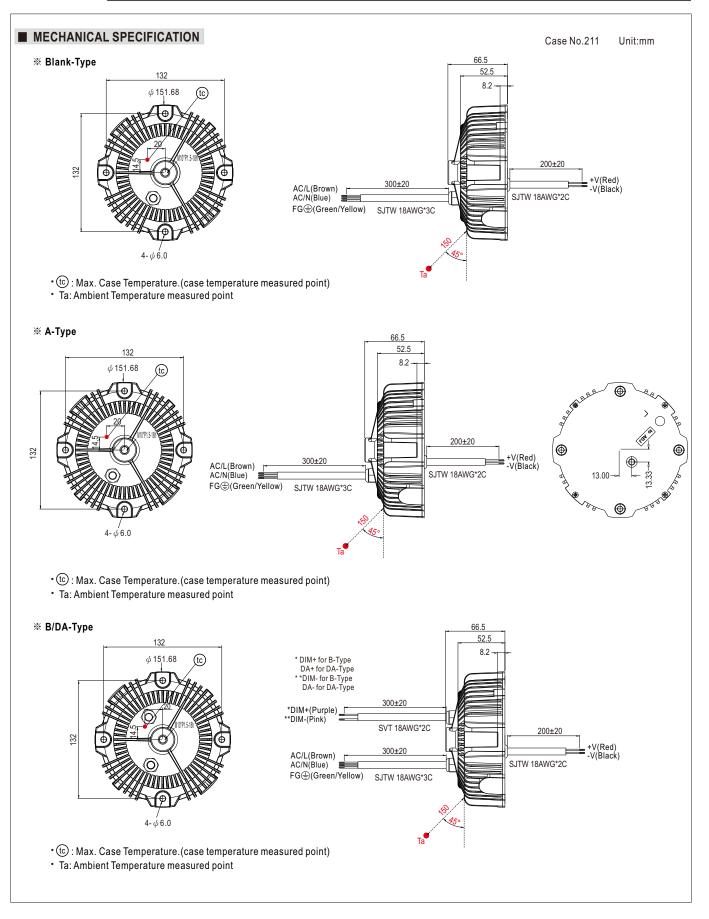






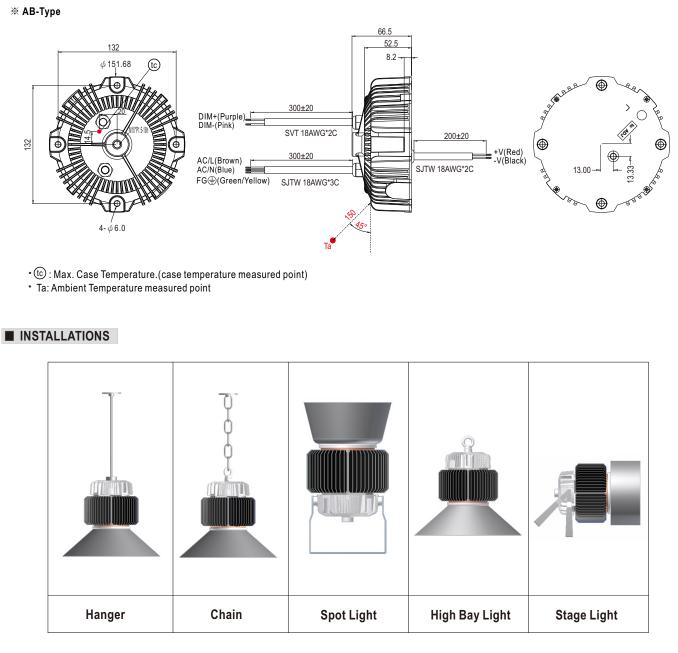








HBG-160 series



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.
- $\cdot\,$ 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.