

HBG-100 series



Description

HBG-100 series is a 100W AC/DC LED driver featuring the circular shape design. It operates from 90~305VAC and offers the constant current output models with different rated voltage between 24V and 60V. Thanks to the high efficiency up to 91.5%, with the fanless design, the entire series is able to operate for -40°C ~ +85°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-100 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 -	100 - 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

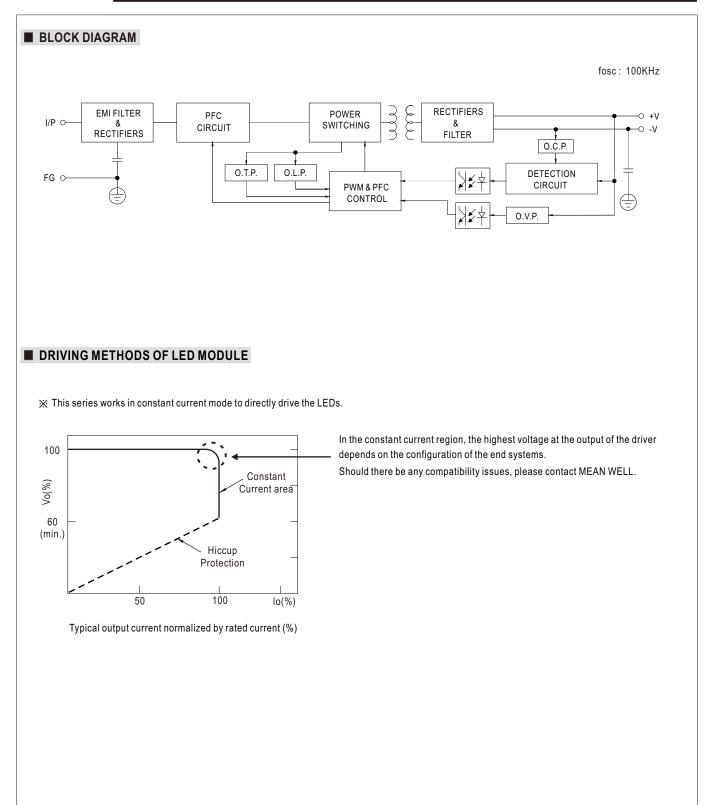


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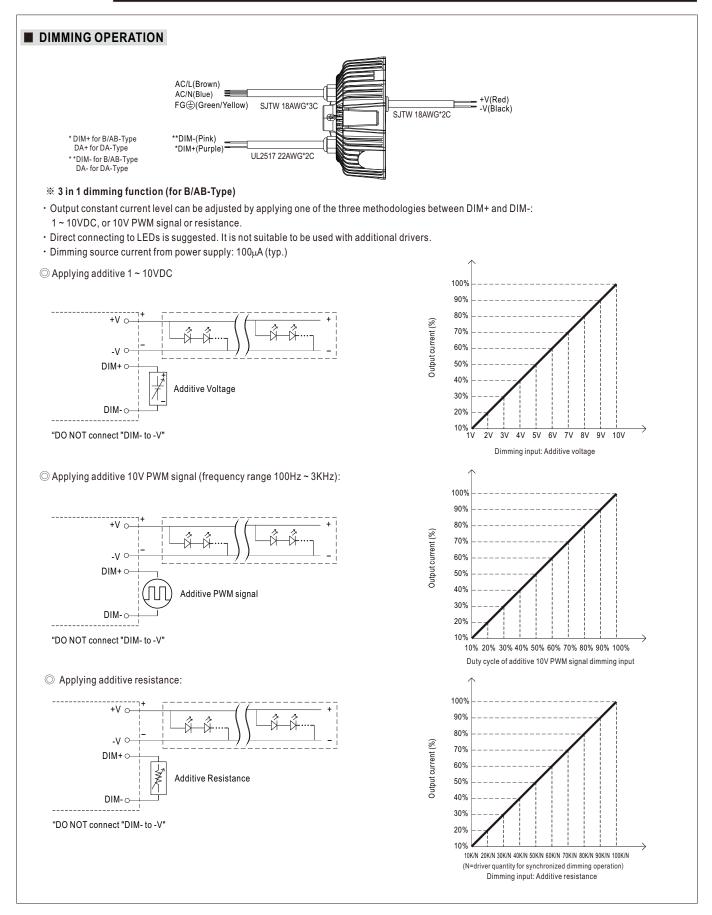
SPECIFICATION

SPECIFICATI	UN	1							
MODEL		HBG-100-24		HBG-100-36	HBG-100-48	HBG-100-60			
	RATED CURRENT	4A		2.7A	2A	1.6A			
	RATED POWER	96W		97.2W	96W	96W			
OUTPUT	CONSTANT CURRENT REGION Note.2	14.4 ~ 24V		21.6 ~ 36V	28.8~48V	36~60V			
	OPEN CIRCUIT VOLTAGE(max.)	25V		37V	49V	62V			
			AB-Type (via b	uilt-in potentiometer)	1				
	CURRENT ADJ. RANGE	2.4~4A	<u>, , , , , , , , , , , , , , , , , , , </u>	1.62 ~ 2.7A	1.2 ~ 2A	1.0 ~ 1.6A			
	CURRENT RIPPLE	5.0% max. @rate	ed current						
-	CURRENT TOLERANCE	±5.0%							
	SETUP TIME Note.4								
	SLIDF HML NOLE.4	90 ~ 305VAC 127 ~ 431VDC							
	VOLTAGE RANGE Note.3								
	FREQUENCY RANGE	47 ~ 63Hz							
	FREQUENCI KANGE								
	POWER FACTOR	PF>0.96/115VAC, PF>0.96/230VAC, PF>0.94/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)							
INPUT	TOTAL HARMONIC DISTORTION			C,230VAC; @load≧75%/2 /ONIC DISTORTION(THD					
	EFFICIENCY (Typ.) Note.5	90.5%		91%	91%	91.5%			
	AC CURRENT (Typ.)	1.1A / 115VAC	0.5A/230V		0.70	0.1070			
	INRUSH CURRENT (Typ.)			us measured at 50% lpeak)	at 230VAC: Per NEMA 410				
	MAX. No. of PSUs on 16A		· ·	B) / 8 units (circuit breaker)					
	LEAKAGE CURRENT	<0.75mA/277V/							
	NO LOAD / STANDBY POWER CONSUMPTION	Standby power c Blank/A-Type ple	•	0.5W for B/AB/DA-Type					
		95~108%							
	OVER CURRENT	Constant current	limiting						
		28 ~ 35V	mmung	41 ~ 49V	54 ~ 63V	65~75V			
PROTECTION	OVER VOLTAGE	Shut down o/p vo	oltago ro powo		54~050	03~750			
		· · ·	<u> </u>	•					
	OVER TEMPERATURE	Shut down o/p vo	•						
-	WORKING TEMP.		C (Please refe	er to " OUTPUT LOAD vs T	EMPERATURE section)				
	MAX. CASE TEMP.	Tcase=+85℃							
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 5G	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; GB19510.1,GB19510.14, BIS IS15885(for 36A,48A,60A only), 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							
2	ISOLATION RESISTANCE								
	EMC EMISSION Note.7	GB17/43 and GB17625.1, EAC IP IC 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			SR-332 (Bellcore) ;299.3K h	rs min. MIL-HDBK-217F	(25°C)			
OTHERS	DIMENSION								
ł	PACKING	1.18Kg; 12pcs/1	5.7Kg/1.43CUF	T(Blank/A/B Type),1.89CU	FT(E Type)				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.								
NOTE	2. Please refer to "DRIVING I	-		•					
	3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.								
	4. 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.								
	5. The DA type power supply is less efficient than the typical efficiency in specification by 1%.								
	6. 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.								
	7. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently								
	connected to the mains. 8 This series much the triad life superturbule for 50,000 heurs of exerction when Tesse particularly (a) point (or TMP, per DLC), is should 75% ex less								
	8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less.								
	 Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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 								
	10. 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(6500tt) 11. For any application note and IP water proof function installation caution, please refer our user manual before using.								
	https://www.meanwell.com/Upload/PDF/LED_EN.pdf								
	X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								
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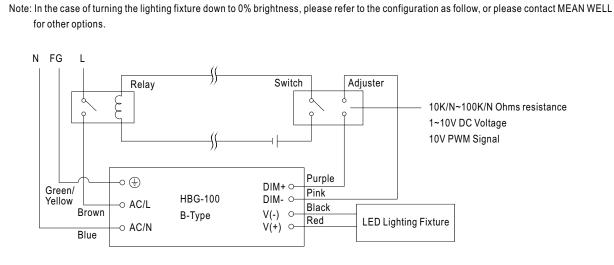








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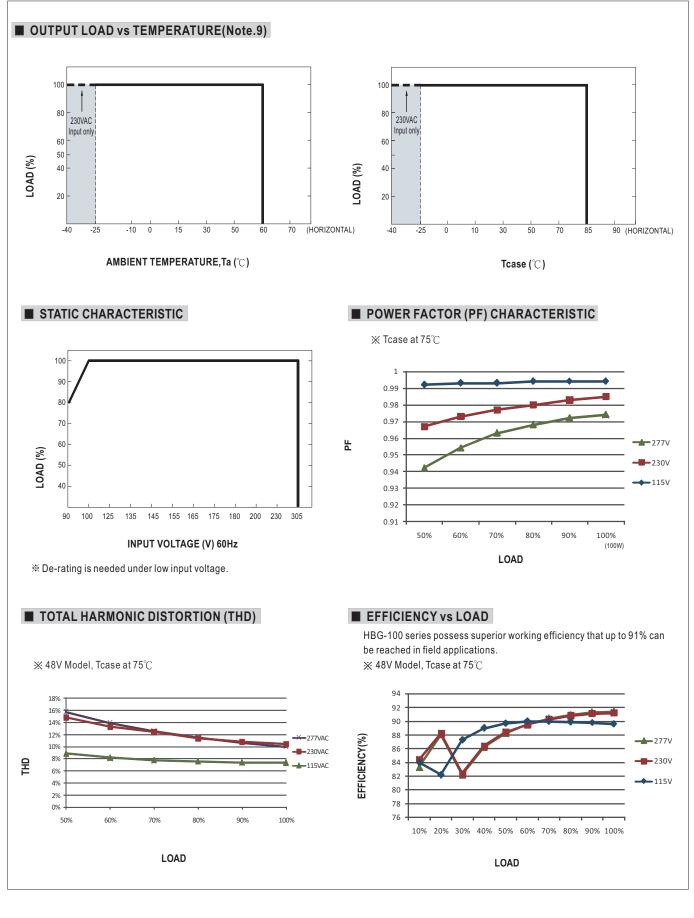


Using a switch and relay can turn ON/OFF the lighting fixture.

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

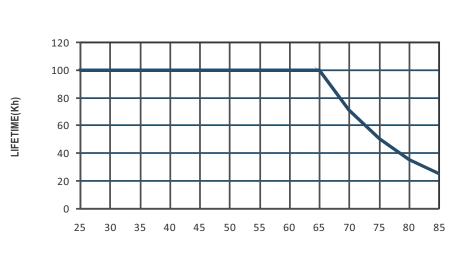
- · Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.





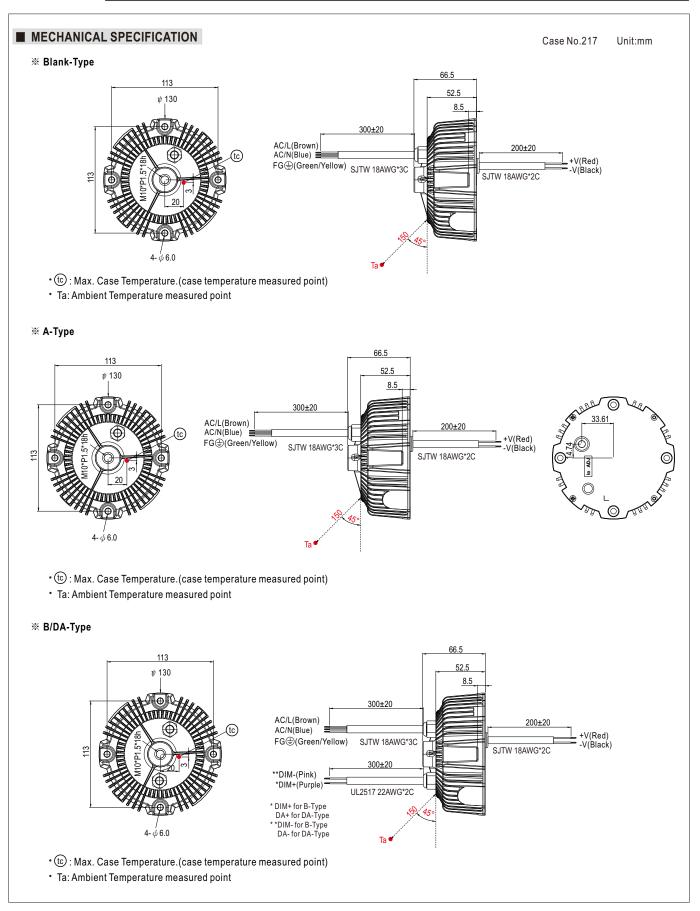


LIFE TIME



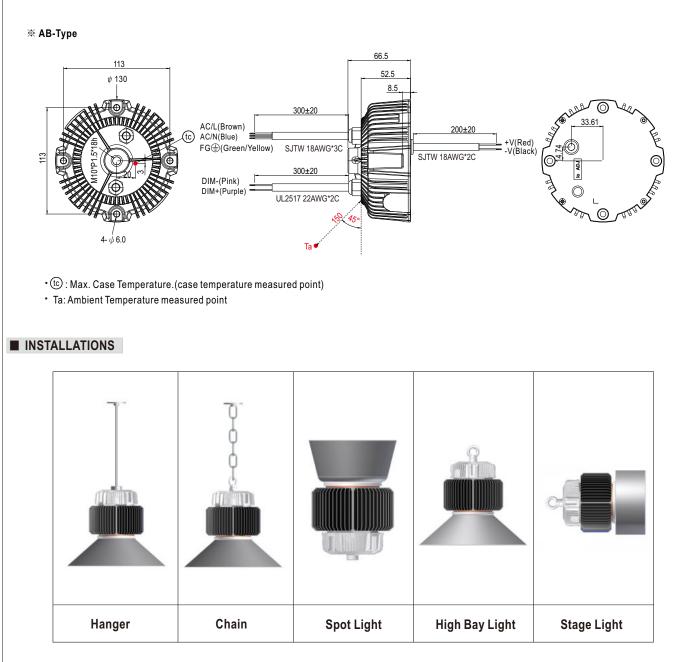
Tcase (° $_{\mathbb{C}}$)







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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.