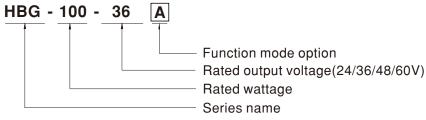




Description

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



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



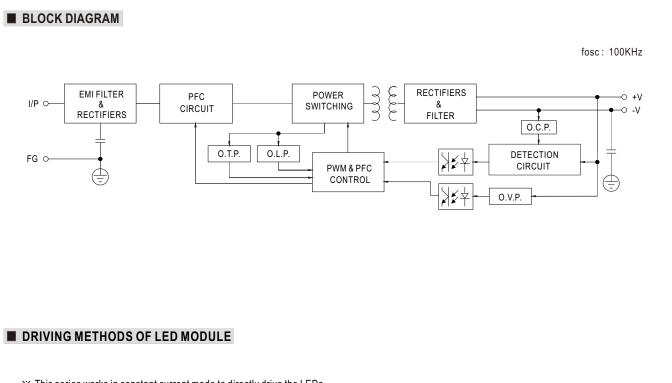
HBG-100 series

SPECIFICATION

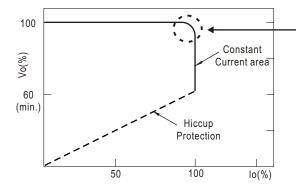
	ON							
MODEL		HBG-100-24	HBG-100-36	HBG-100-48	HBG-100-60			
	RATED CURRENT	4A	2.7A	2A	1.6A			
OUTPUT	RATED POWER	96W	97.2W	96W	96W			
	CONSTANT CURRENT REGION Note.2	14.4 ~ 24V	21.6 ~ 36V	28.8 ~ 48V	36~60V			
	OPEN CIRCUIT VOLTAGE(max.)	25V 37V 49V 62V						
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type (via b	ouilt-in potentiometer)					
		2.4 ~ 4A	1.62 ~ 2.7A	1.2 ~ 2A	1.0 ~ 1.6A			
	CURRENT RIPPLE	5.0% max. @rated current						
	CURRENT TOLERANCE	±5.0%						
	SETUP TIME Note.4							
-	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47~63Hz						
	POWER FACTOR	PF>0.96/115VAC, PF>0.96/230VAC, PF>0.94/277VAC@full load						
	TOWERTAOTOR	(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)						
	EFFICIENCY (Typ.) Note.5	•	91%	91%	91.5%			
	AC CURRENT (Typ.)	1.1A / 115VAC 0.5A / 230		31/0	31.370			
	INRUSH CURRENT (Typ.)			230\/AC: Per NFMA 410				
		COLD START 60A(twidth=550µs measured at 50% Ipeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA/277VAC						
	OVER CURRENT	95 ~ 108%						
	OVER CORRENT	Constant current limiting						
PROTECTION	OVER VOLTAGE	28 ~ 35V	41 ~ 49V	54 ~ 63V	65 ~ 75V			
		Shut down o/p voltage re-power on to recovery						
	OVER TEMPERATURE	Shut down o/p voltage re-power on to recovery						
	WORKING TEMP.	Tcase=-40 ~ +85℃ (Please ref	er to "OUTPUT LOAD vs TEM	PERATURE" section)				
	MAX. CASE TEMP.	Tcase=+85℃						
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, 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	SISTANCE 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 02			1			
	MTBF		SR-332 (Bellcore) ;299.3K hrs r	min. MIL-HDBK-217F (25°C	() ()			
OTHERS	DIMENSION	φ 130mm *66.5mm (D * H)						
	PACKING	1.18Kg; 12pcs/15.7Kg/1.43CUF						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. The DA type power supply is less efficient than the typical efficiency in specification by 1%. 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) This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) 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) 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 For A/AB type need to consider build-in using or filling the lo adjusting hole with the potting compound to comply with Type HL application. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 							



HBG-100 series



 $\,$ $\!$ $\!$ $\!$ This series works in constant current mode to directly drive the LEDs.

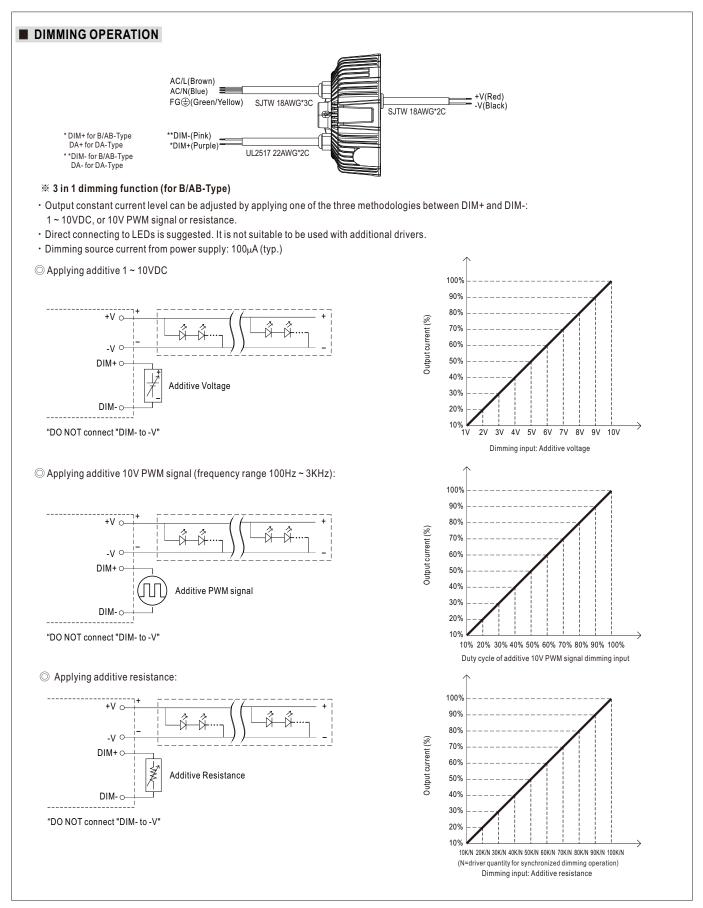


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

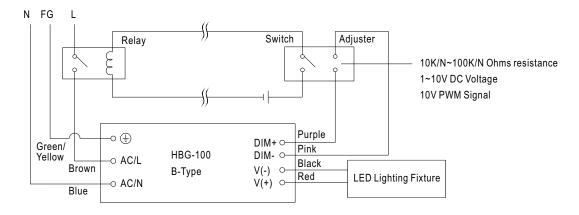






HBG-100 series

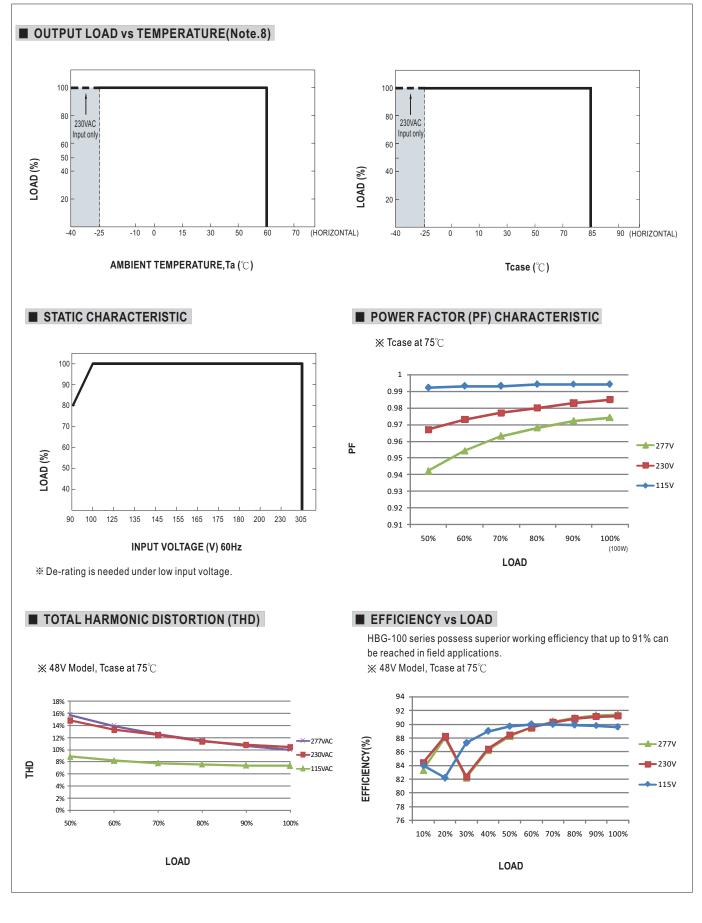
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

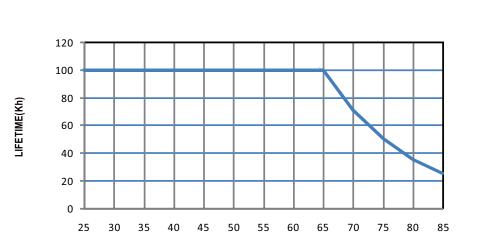
- **% DALI Interface (primary side; for DA-Type)**
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.





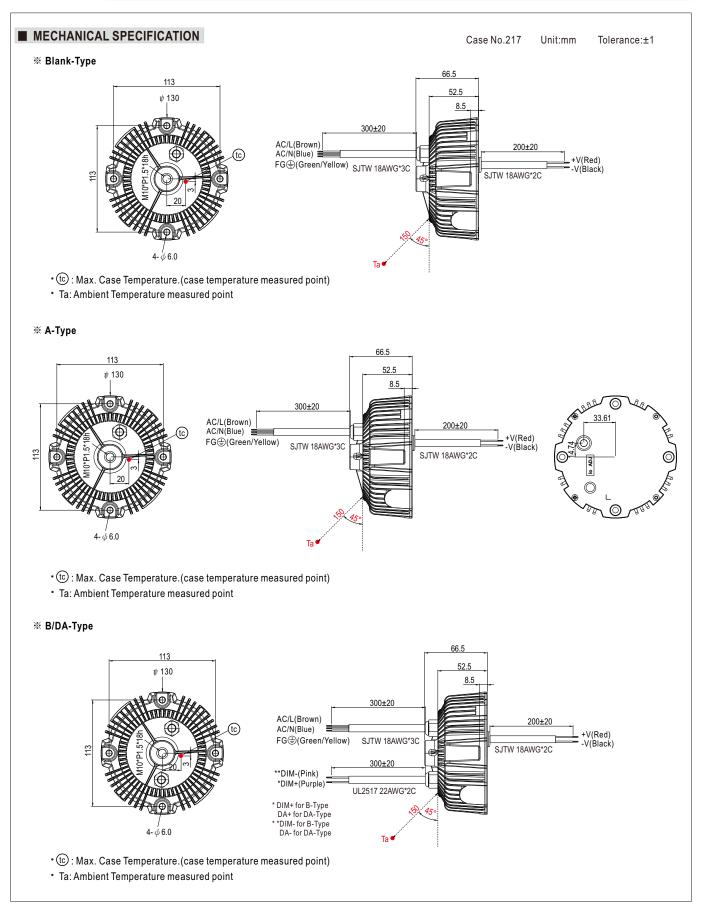


LIFE TIME



Tcase ($^{\circ}C$)

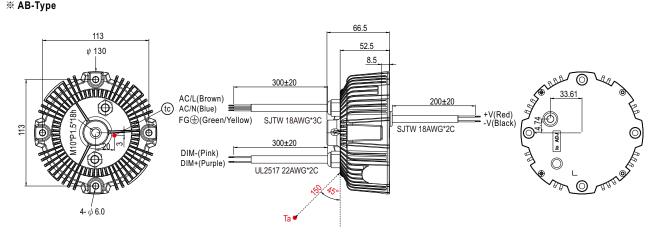






HBG-100 series

※ AB-Type



• (tc) : Max. Case Temperature.(case temperature measured point)

• Ta: Ambient Temperature measured point

■ INSTALLATIONS

Hanger	Chain	Spot Light	High Bay Light	Stage Light

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.