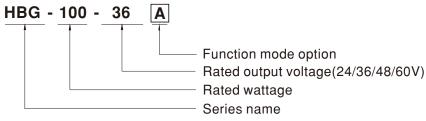




Description

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



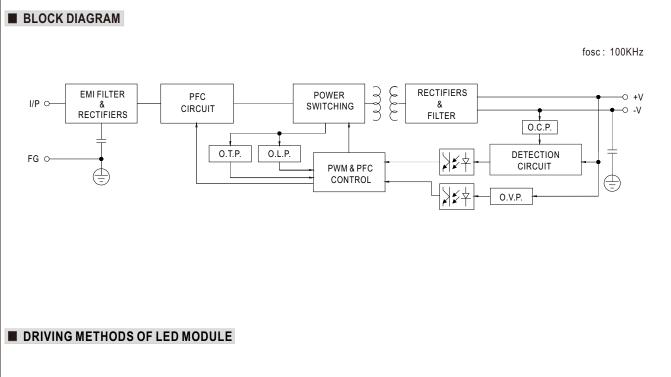
HBG-100 series

SPECIFICATION

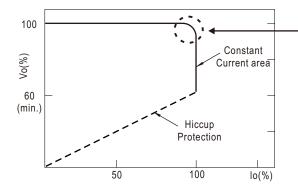
MODEL	ION	HBG-100-24	HBG-100-36	HBG-100-48	HBG-100-60			
MODEL								
	RATED CURRENT	4A	2.7A	2A	1.6A			
OUTPUT	RATED POWER	96W	97.2W	96W	96W			
	CONSTANT CURRENT REGION Note.2		21.6 ~ 36V	28.8 ~ 48V	36 ~ 60V			
	OPEN CIRCUIT VOLTAGE(max.)	25V	37V	49V	62V			
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type (via b	, ,					
		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						
	FOWERTACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION		′C,230VAC; @load≧75%/277VA					
INPUT	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HAR	MONIC DISTORTION(THD)" see	ction)				
	EFFICIENCY (Typ.) Note.5	90.5%	91%	91%	91.5%			
	AC CURRENT (Typ.)	1.1A / 115VAC 0.5A / 230	VAC 0.45A / 277VAC					
	INRUSH CURRENT (Typ.)	COLD START 60A(twidth=550	us measured at 50% Ipeak) at 23	0VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC						
	CIRCUIT BREAKER	+ units (circuit breaker of type	יום units (circuit breaker of typ	0 01 al 200VAG				
	LEAKAGE CURRENT	<0.75mA/277VAC						
	NO LOAD / STANDBY	Standby power consumption <0.5W for B/AB/DA-Type						
	POWER CONSUMPTION	Blank/A-Type please refer to N	ote. 7					
		95 ~ 108%						
	OVER CURRENT	Constant current limiting						
		28 ~ 35V	41~49V	54 ~ 63V	65 ~ 75V			
PROTECTION	OVER VOLTAGE	Shut down o/p voltage re-powe	r on to recovery					
	OVER TEMPERATURE	Shut down o/p voltage re-power on to recovery						
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+85°C						
	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		period for 72min. each along X,	Y. Z axes				
		UL8750(type"HL"),CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1,BS EN/EN61347-2-13 independent, BS EN/EN62384:						
	SAFETY STANDARDS	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						
		Compliance to BS EN/EN55015, BS EN/EN61000-3-2, Class C (@load > 60%) · BS EN/EN61000-3-3						
	EMC EMISSION Note.7	GB17743 and GB17625.1, EAC TP TC 020						
		Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level (surge immunity:Line-Earth:4KV,						
	EMC IMMUNITY	Line-Line:2KV), EAC TP TC 020						
OTHERS	MTBF	2433.4K hrs min. Telcordia SR-332 (Bellcore) ;299.3K hrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	φ 130mm *66.5mm (D * H) 1.18Kg; 12pcs/15.7Kg/1.43CUFT(Blank/A/B Type),1.89CUFT(E Type)						
	PACKING		, .	,				
NOTE	ature.							
	2. 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. 							
	 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%. 							
	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 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.							
	9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com							
	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(6500ft) 11. For any application note and IP water proof function installation caution, please refer our user manual before using.							
		•			5 5			
	11. For any application note ar	nd IP water proof function instal			J			
	11. For any application note an https://www.meanwell.com	nd IP water proof function instal /Upload/PDF/LED_EN.pdf		user manual before using.				



HBG-100 series



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

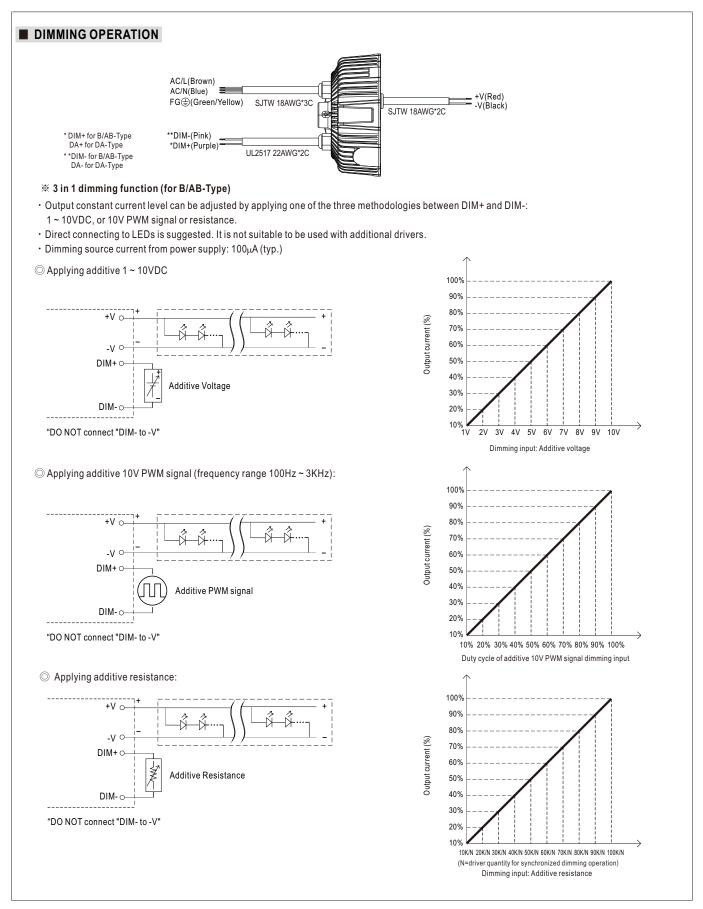


Typical output current normalized by rated current (%)

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.

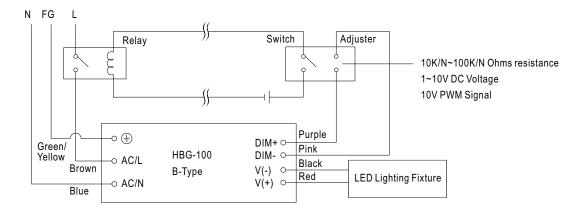






HBG-100 series

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.

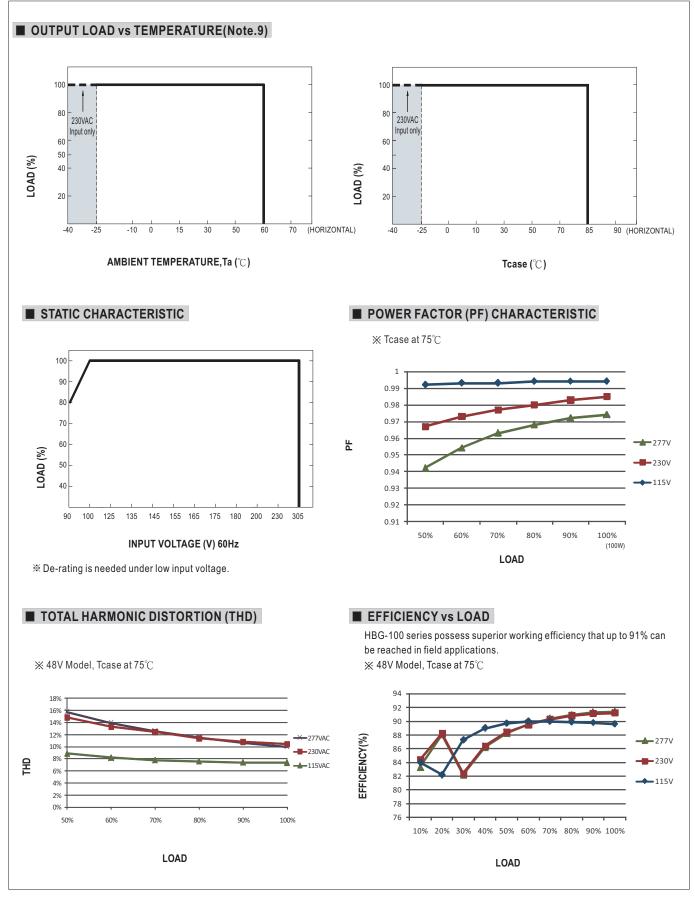


Using a switch and relay can turn ON/OFF the lighting fixture.

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

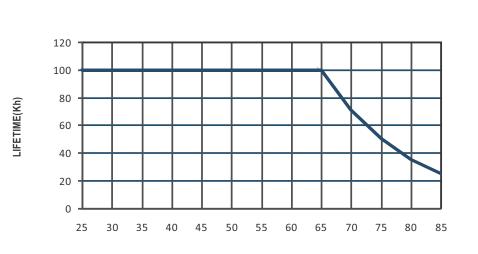
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.





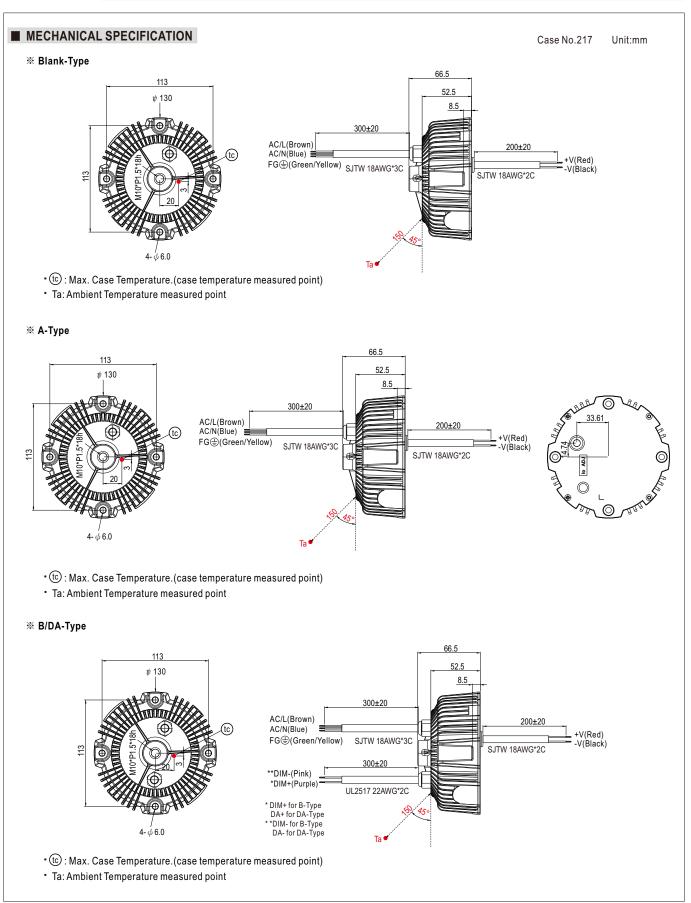






Tcase (° $_{\mathbb{C}}$)

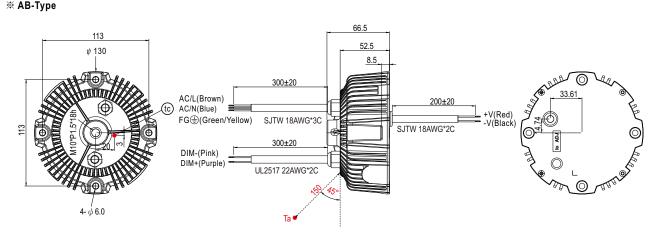






HBG-100 series

※ AB-Type



• (c) : 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.