



• 5 years warranty

Description

HBG-240 series is a 240W 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° C ~ $+75^{\circ}$ 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-240 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding

$\frac{HBG}{H} - \frac{240}{H} - \frac{36}{H}$	
	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



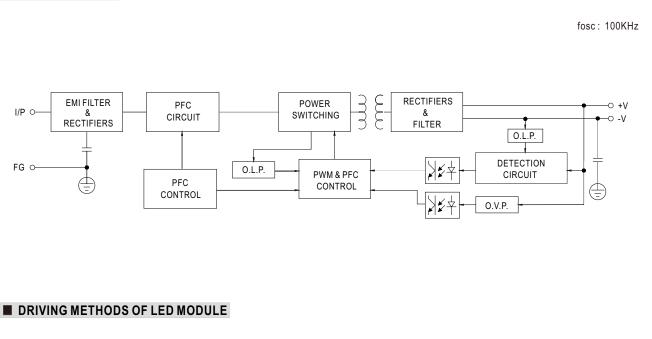
SPECIFICATION

MODEL		HBG-240-24	HBG-240-36	HBG-240-48	HBG-240-60			
	DC VOLTAGE	24V	36V	48V	60V			
	CONSTANT CURRENT REGION Note.2		21.6 ~ 36V	28.8 ~ 48V	36 ~ 60V			
		14.4 ~ 24 V	21.0 ~ 30 V	20.0 ~ 40 V	58~000			
	CONSTANT CURRENT REGION (for DA Type only)	16.8 ~ 24V	25.2 ~ 36V	33.6 ~ 48V	42 ~ 60V			
	RATED CURRENT	10A	6.7A	5A	4.0A			
	RATED POWER Note.5	240W	240W	240W	240W			
	RIPPLE & NOISE (max.) Note.3	150mVp-p	250mVp-p	250mVp-p	350mVp-p			
		Adjustable for A/AB-Type (via		P P	P P P			
OUTPUT	CURRENT ADJ. RANGE	6 ~ 10A	4.0 ~ 6.7A 3 ~ 5A 2.4 ~ 4.0A					
	VOLTAGE TOLERANCE Note.4	±2.0%						
	LINE REGULATION	±0.5%						
	LOAD REGULATION	±0.5%						
	SETUP, RISE TIME Note.6	500ms,120ms /230VAC 2500ms,120ms /115VAC						
	HOLD UP TIME (Typ.)	15ms /115VAC, 230VAC						
		90 ~ 305VAC 127 ~ 431	VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CH/	ARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	POWER FACTOR	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/11 (Please refer to "TOTAL HA						
		92.5%		, ,	02 59/			
	EFFICIENCY (Typ.) Note.7		92.5%	93%	93.5%			
	AC CURRENT (Typ.)							
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=68	30μs measured at 50% Ipeal	k) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	2 units (circuit breaker of typ	pe B)/3 units (circuit breake	er of type C) at 230VAC				
	CIRCUIT BREAKER							
	LEAKAGE CURRENT	<0.75mA/277VAC						
	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		27 ~ 34V	43 ~ 52V	52 ~ 63V	62 ~ 85V			
	OVER VOLTAGE				02 000			
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover						
	WORKING TEMP.	Shut down o/p voltage, recovers automatically after temperature goes down Tcase=-40 ~ +75°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
		- 1	Teler to OUTFUT LOAD	VS TEMPERATORE Section)				
	MAX. CASE TEMP.	Tcase=+75℃						
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 along X, Y, Z axes						
	SAFETY STANDARDS	UL8750,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 48A,60A only), EAC TP TC 004, IP65 or IP67 approved						
SVEETA 0	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						
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≧75%) ; 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	1792.9K hrs min. Telcordi	a SR-332 (Bellcore) ;172.4K	د hrs min. MIL-HDBK-217F (25)	°C)			
OTHERS	DIMENSION	ϕ 191.5mm *69mm (D * H)		, , , , , , , , , , , , , , , , , , ,				
-	PACKING	2.1Kg; 8pcs/18.3Kg/2.09CU	FT					
NOTE	 Please refer to "DRIVING M Ripple & noise are measure Tolerance : includes set up t De-rating may be needed up Length of set up time is mea The DA type power supply is The driver is considered as a by the complete installation, (as available on https://www This series meets the typica Please refer to the warrant The ambient temperature d For any application note ar https://www.meanwell.com/ 	eters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. fer to "DRIVING METHODS OF LED MODULE". noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. : includes set up tolerance, line regulation and load regulation. may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. set up time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. rpe power supply is less efficient than the A type power supply by 1%. r is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected mplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. ble on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) s meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (b) point (or TMP, per DLC), is about 70°C or less. effer to the warranty statement on MEAN WELL's website at http://www.meanwell.com vient 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) application note and IP water proof function installation caution, please refer our user manual before using. ww.meanwell.com/Upload/PDF/LED_EN.pdf 3 type need to consider build-in using or filling the lo adjusting hole with the potting compound to comply with Type HL application. Jability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

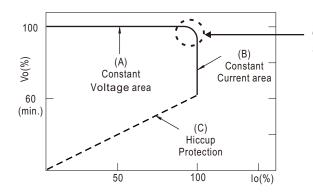


HBG-240 series

BLOCK DIAGRAM



※ This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

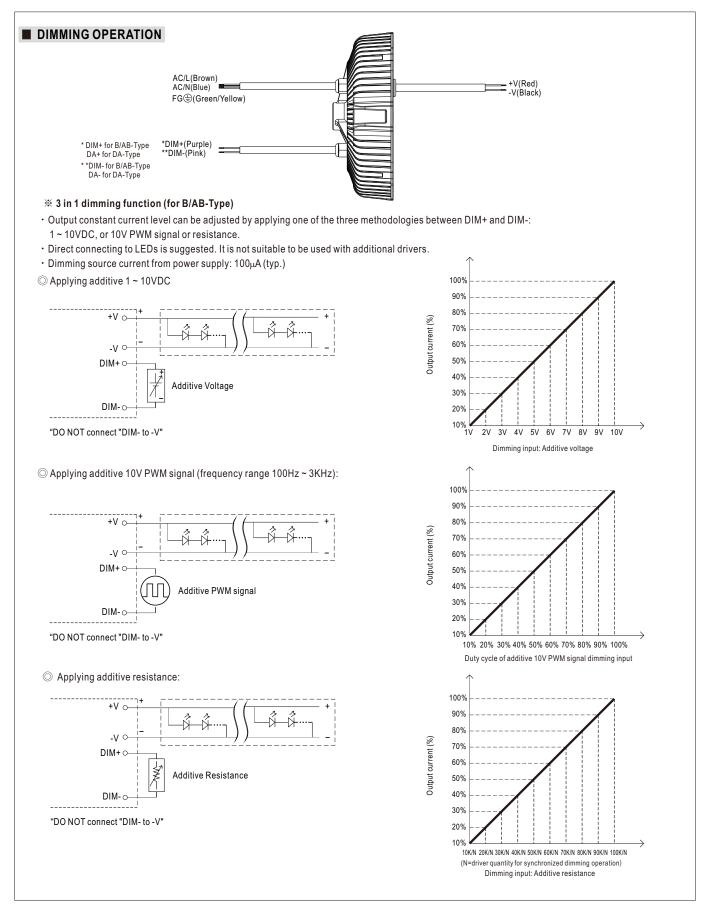


Typical output current normalized by rated current (%)

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.

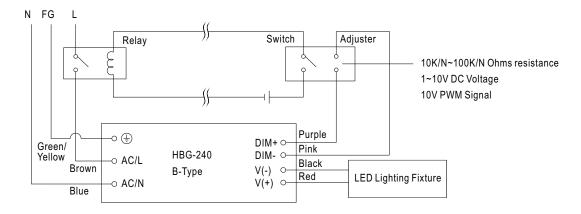






HBG-240 series

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.

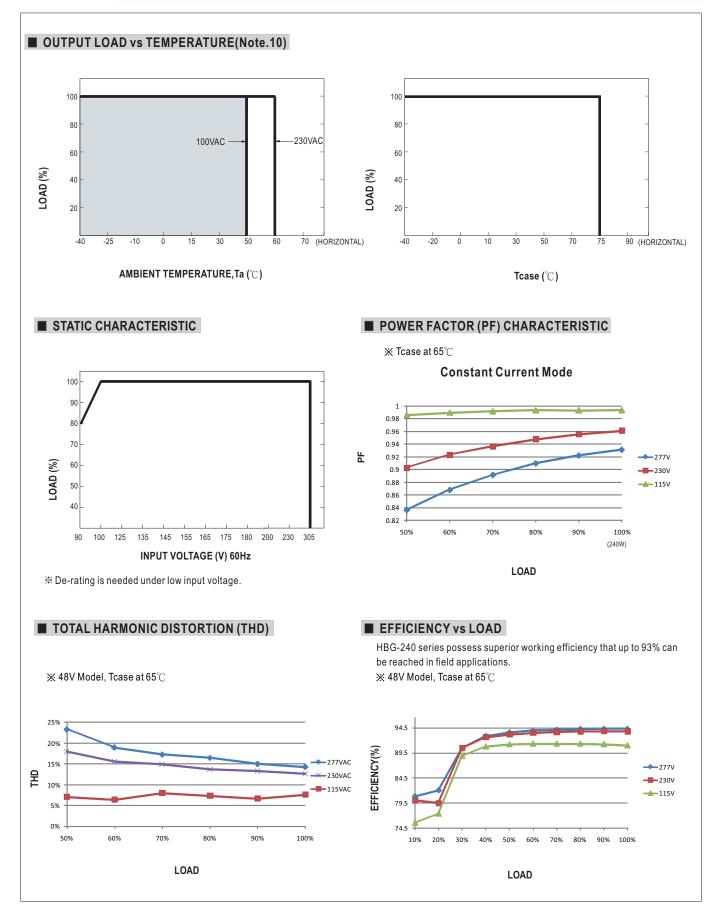


Using a switch and relay can turn ON/OFF the lighting fixture.

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

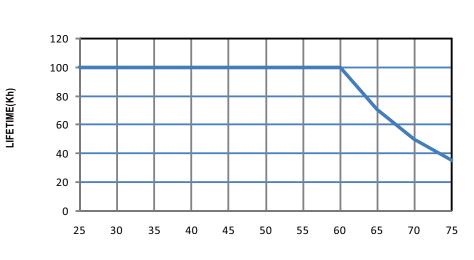
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.





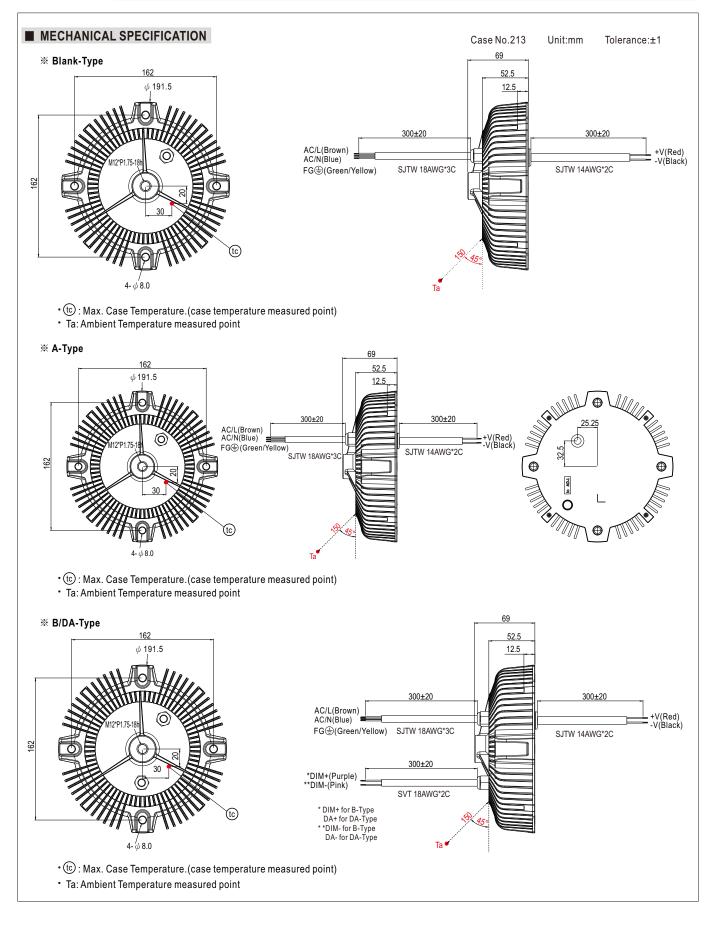








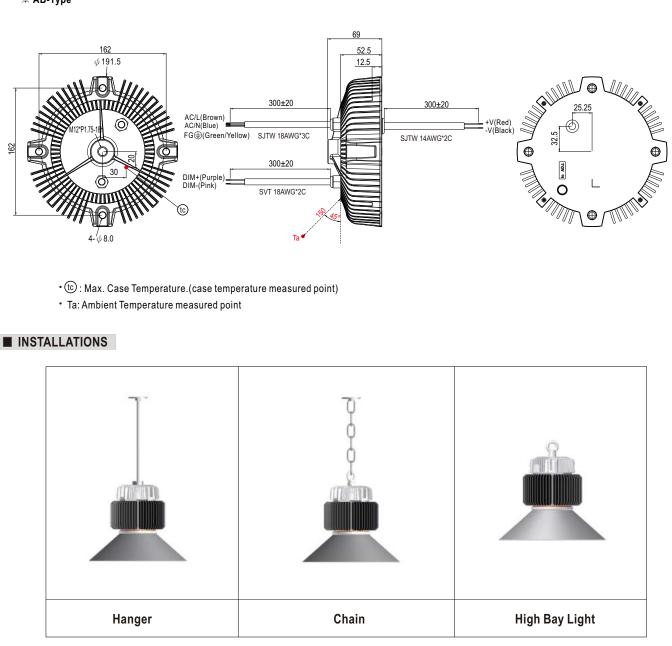






HBG-240 series

※ АВ-Туре



Caution

- Please inspect the appearance of the driver if the package is damaged. There should not be any cracks.
- $\cdot\,$ 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.
- $\cdot\,$ The entire luminaire, including the driver, should be limited to 15Kg or less.
- $\cdot\,$ The luminaire should be cautiously protected from damage due to shock throughout packaging and transportation.
- \cdot Please thoroughly follow the preceding cautionary notes to prevent the luminaire from falling, leading to injuries.