

Наличие и актуальные цены на

HBG-240-48A

https://www.mean-well.ru/store/HBG-240-48A/



















■ Features

- · Constant Voltage + Constant Current mode output
- · Circular metal housing with class I design
- · Built-in active PFC function
- IP67 / IP65 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer; 3 in 1 dimming; DALI
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- · LED bay lighting
- · LED stage lighting
- LED spot lighting

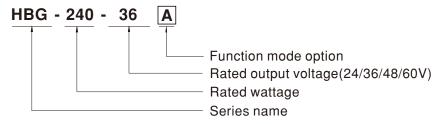
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

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 $^{\circ}$ C $^{\circ}$ - +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



Туре	IP Level	Function	Note
Blank	IP67	lo fixed.	In Stock
Α	IP65	Io 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	lo adjustable through built-in potentiometer with 3 in 1 dimming function	In Stock
DA	IP67	DALI control technology.	In Stock



240W Constant Voltage + Constant Current LED Driver

HBG-240 series

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	14.4 ~ 24V	21.6 ~ 36V	28.8 ~ 48V	36 ~ 60V			
ОИТРИТ	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		250mVp-p	250mVp-p	350mVp-p			
		Adjustable for A/AB-Type (via b	uilt-in potentiometer)					
	CURRENT ADJ. RANGE	6 ~ 10A	4.0 ~ 6.7A	3 ~ 5A	2.4 ~ 4.0A			
	VOLTAGE TOLERANCE Note.4	±2.0%	110 01171	0 0.1	111 11071			
	LINE REGULATION	±0.5%						
	LOAD REGULATION	±0.5%						
	SETUP, RISE TIME Note.6							
	HOLD UP TIME (Typ.)	15ms /115VAC, 230VAC						
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC						
	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%/115V (Please refer to "TOTAL HARM						
	EFFICIENCY (Typ.) Note.7	92.5%	92.5%	93%	93.5%			
	AC CURRENT (Typ.)	2.5A / 115VAC 1.3A / 230	VAC 1.2A / 277VAC					
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=680µs measured at 50% Ipeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	OVER OURRENT	95 ~ 108%						
PROTECTION	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed						
		27 ~ 34V	43 ~ 52V	52 ~ 63V	62 ~ 85V			
	OVER VOLTAGE	Shut down and latch off o/p vol	age, re-power on to recover					
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
	WORKING TEMP.	Tcase=-40 ~ +75°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+75°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	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
SAFETY &	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						
	DALI STANDARDS	Compliance to IEC62386-101, 102, 207 for DA-Type only						
	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. Telcordia SR-332 (Bellcore) ;172.4K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	φ 191.5mm *69mm (D * H)		, ,				
	PACKING	2.1Kg; 8pcs/18.3Kg/2.09CUFT						
NOTE	All parameters NOT speciall Please refer to "DRIVING M Ripple & noise are measure Tolerance: includes set up t De-rating may be needed ur Length of set up time is mea The DA type power supply is	ecially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. IG METHODS OF LED MODULE". assured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. It up tolerance, line regulation and load regulation. ed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. It is poly is less efficient than the A type power supply by 1%. It is 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)

- 9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 70°C or less.

 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com

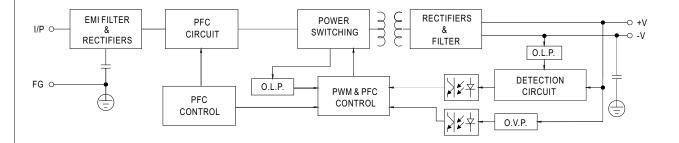
 11. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

 12. 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
- 13. 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.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



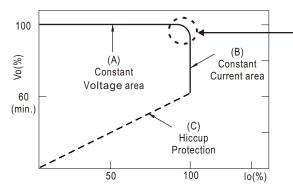
■ BLOCK DIAGRAM

fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X 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.

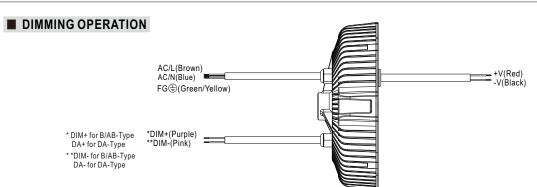


Typical output current normalized by rated current (%)

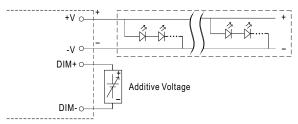
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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



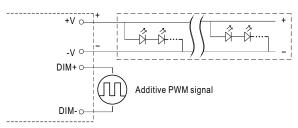


- ※ 3 in 1 dimming function (for B/AB-Type)
- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100\mu A$ (typ.)
- O Applying additive 1 ~ 10VDC



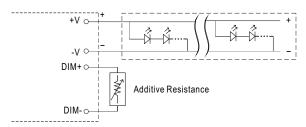
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

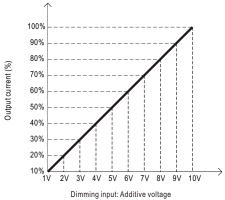


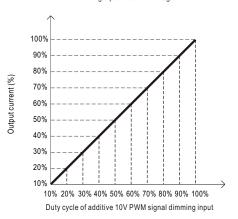
"DO NOT connect "DIM- to -V"

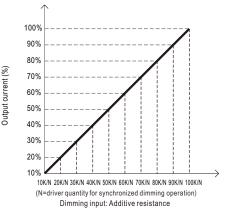
Applying additive resistance:



"DO NOT connect "DIM- to -V"

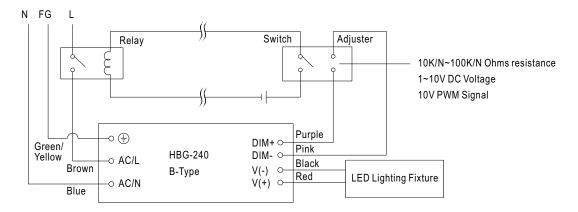








Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

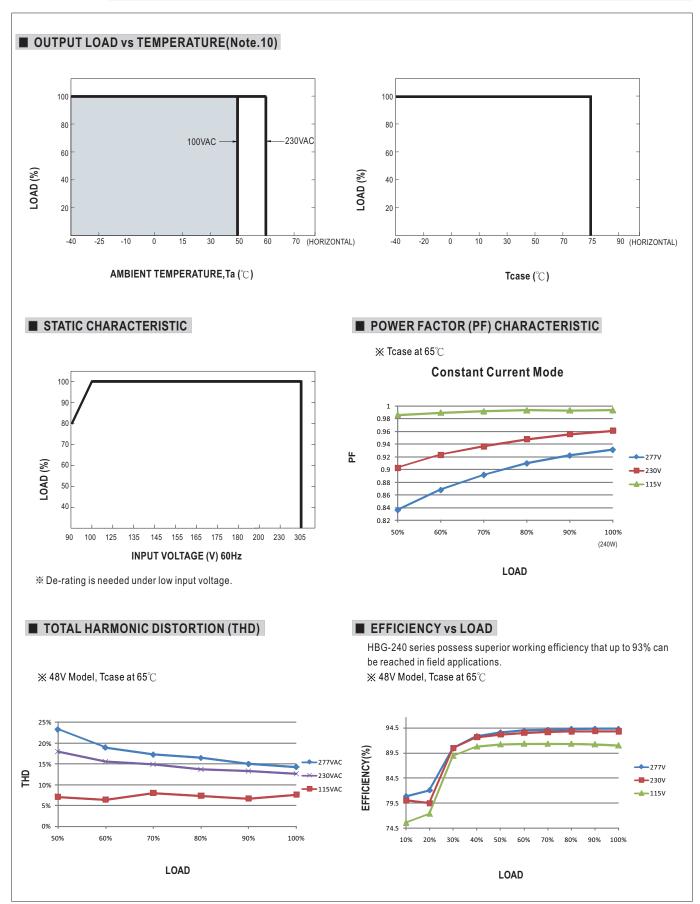


Using a switch and relay can turn ON/OFF the lighting fixture.

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

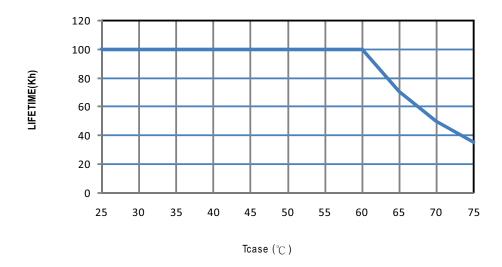
- · Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.



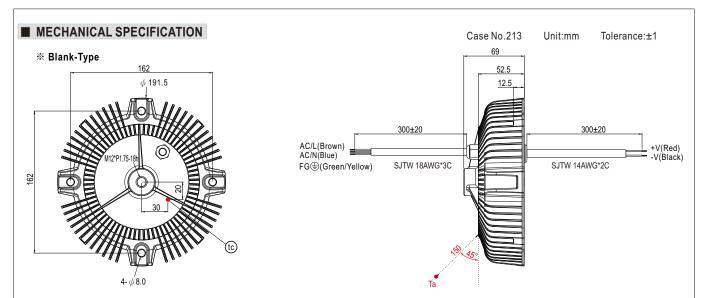




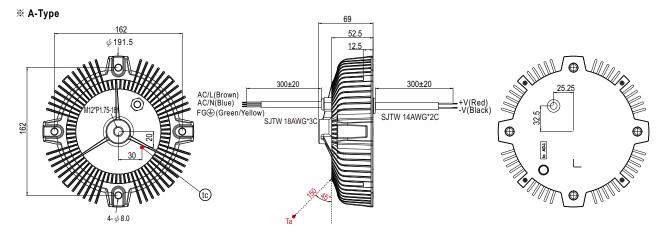
■ LIFE TIME



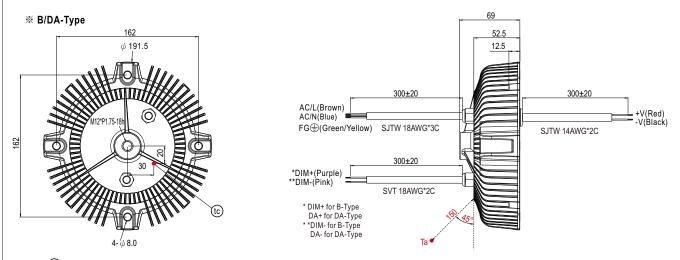
HBG-240 series



- (c): Max. Case Temperature. (case temperature measured point)
- Ta: Ambient Temperature measured point



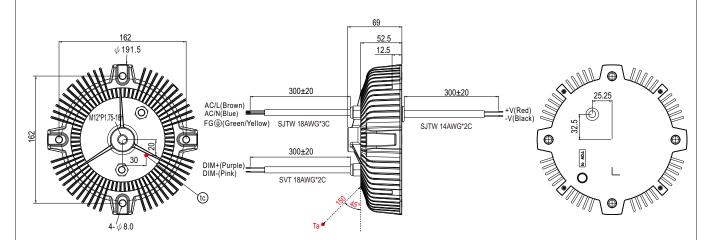
- ullet (case temperature measured point)
- Ta: Ambient Temperature measured point



- (tc): Max. Case Temperature.(case temperature measured point)
- Ta: Ambient Temperature measured point



※ AB-Type



- (tc): Max. Case Temperature.(case temperature measured point)
- Ta: Ambient Temperature measured point

■ INSTALLATIONS



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.
- \cdot The entire luminaire, including the driver, should be limited to 15Kg 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.