

Наличие и актуальные цены на

# HBG-240-60DA

https://www.meanwell.ru/store/HBG-240-60DA/





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  $-40^{\circ}$ 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

$\frac{HBG}{HBG} - \frac{240}{H} - \frac{36}{H}$	
	<ul> <li>Function mode option</li> </ul>
	 <ul> <li>Rated output voltage(24/36/48/60V)</li> </ul>
	 <ul> <li>Rated wattage</li> </ul>
	 <ul> <li>Series name</li> </ul>

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



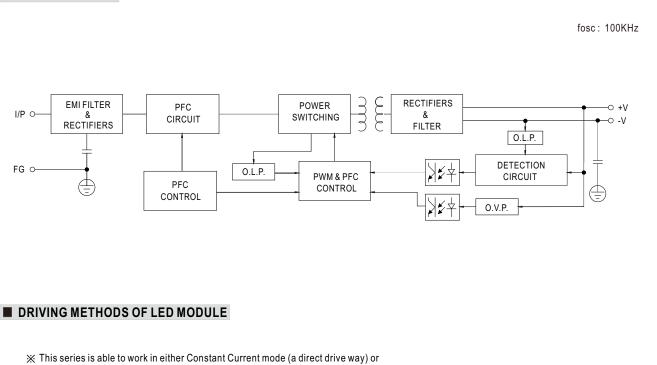
#### SPECIFICATION

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	21.0~30V	20.0~40V	38~800			
	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 (			I I I			
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 ~ 4	31VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧80%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
	EFFICIENCY (Typ.) Note.7	92.5%	92.5%	, ,	93.5%			
	AC CURRENT (Typ.)		230VAC 1.2A / 277VAC	93%	30.0 /0			
	INRUSH CURRENT (Typ.)	COLD START /5A(twidth=	680µs measured at 50% Ipeak	() at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	2 units (circuit breaker of	type 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, r	ecovers automatically after fau	ult 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	Shut down and latch off o/p voltage, re-power on to recover						
	OVER TEMPERATURE	-						
	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)						
	MAX. CASE TEMP.	Tcase=+75°C						
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./1c	cle, period for 72min. each al	ong 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						
SAFETY &	DALI STANDARDS	Compliance to IEC62386-	101, 102, 207 for DA-Type or	nly				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-	FG:2KVAC O/P-FG:0.5KVA	VC				
EMC	ISOLATION RESISTANCE		100M Ohms / 500VDC / 25°C/					
	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. Telcor	dia SR-332 (Bellcore) ;172.4K	hrs min. MIL-HDBK-217F (25°	°C)			
OTHERS	DIMENSION	$\phi$ 191.5mm *69mm (D * H)						
2	PACKING	2.1Kg; 8pcs/18.3Kg/2.09C	UFT					
NOTE	<ol> <li>Please refer to "DRIVING M</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up to</li> <li>De-rating may be needed up</li> <li>Length of set up time is mea</li> <li>The DA type power supply is</li> <li>The driver is considered as a by the complete installation, (as available on https://www.</li> <li>This series meets the typical</li> <li>Please refer to the warrant</li> <li>The ambient temperature d</li> <li>For any application note an https://www.meanwell.com/</li> </ol>	ecially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. IG METHODS OF LED MODULE". IG METHODS OF LED MODULE". Issured 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. popy is less efficient than the A type power supply by 1%. If as a component that will be operated in combination with final equipment. Since EMC performance will be affected tion, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) pical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less. Irranty statement on MEAN WELL's website at http://www.meanwell.com ure derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). the and IP water proof function installation caution, please refer our user manual before using. com/Upload/PDF/LED_EN.pdf o consider build-in using or filling the lo adjusting hole with the potting compound to comply with Type HL application.						

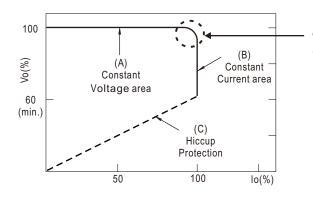


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#### BLOCK DIAGRAM



Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

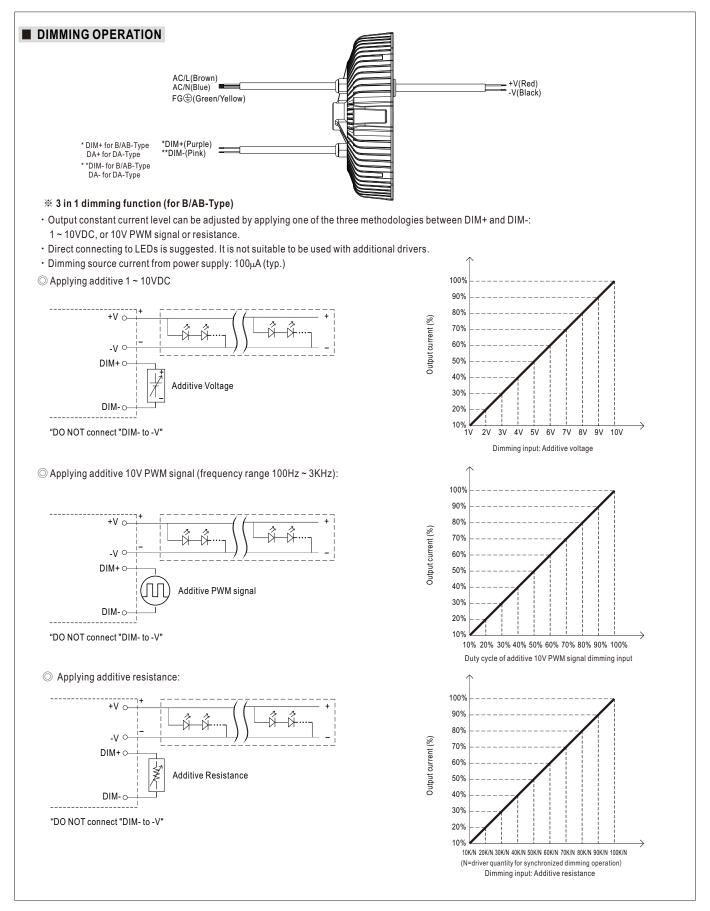


Typical output current normalized by rated current (%)

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.

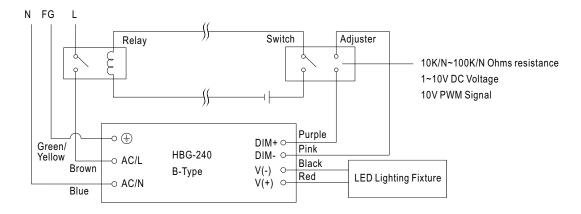






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Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.

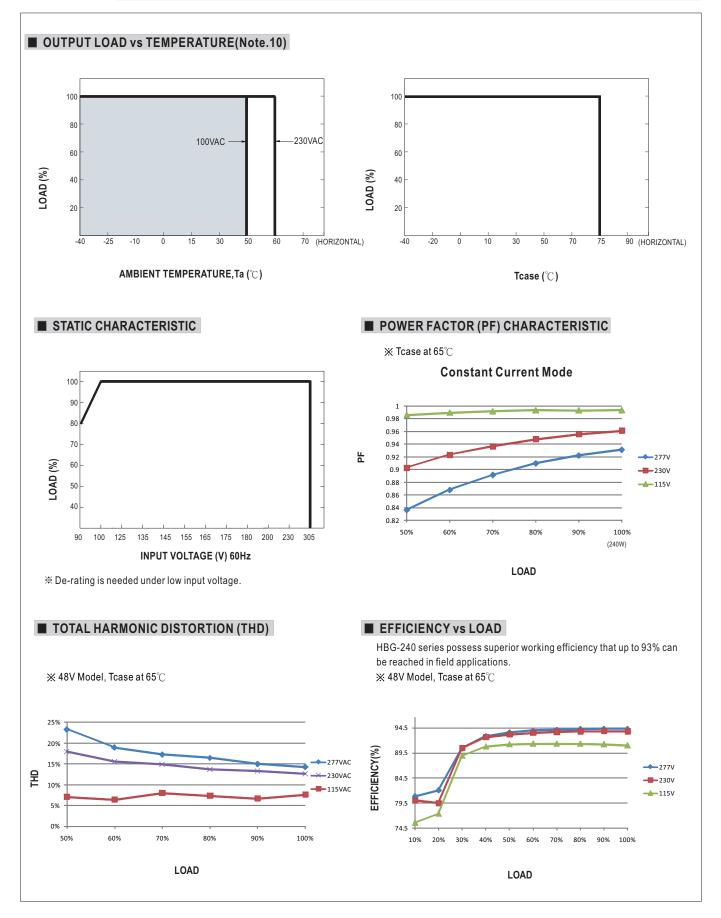


Using a switch and relay can turn ON/OFF the lighting fixture.

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

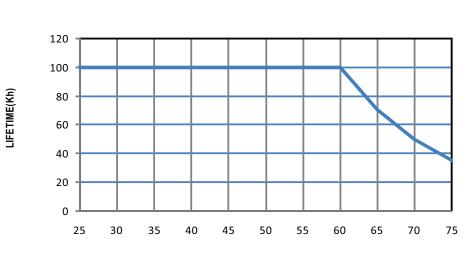
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.





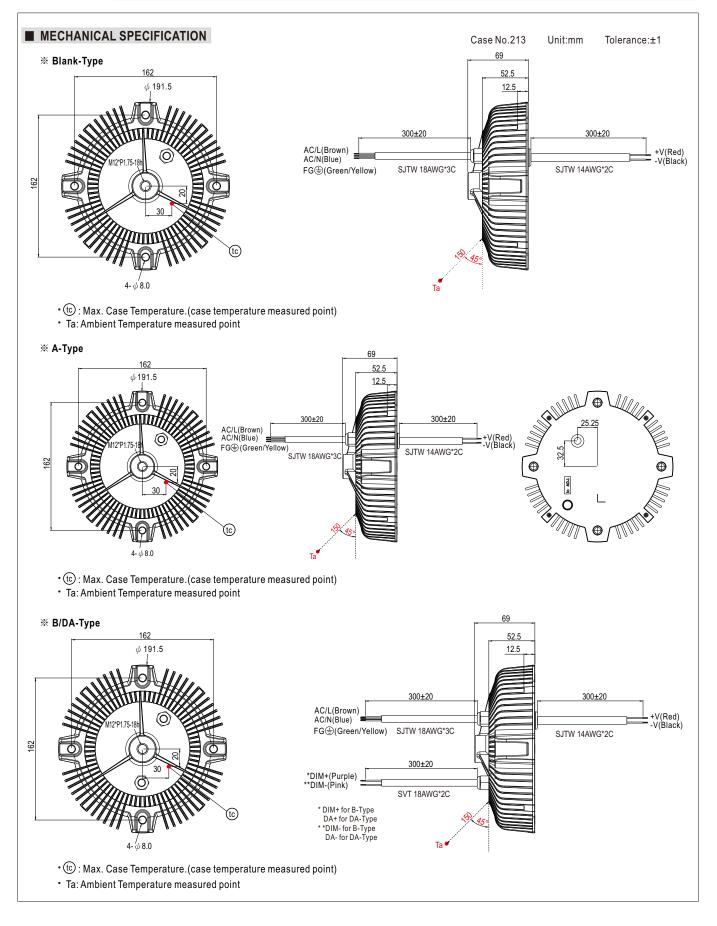








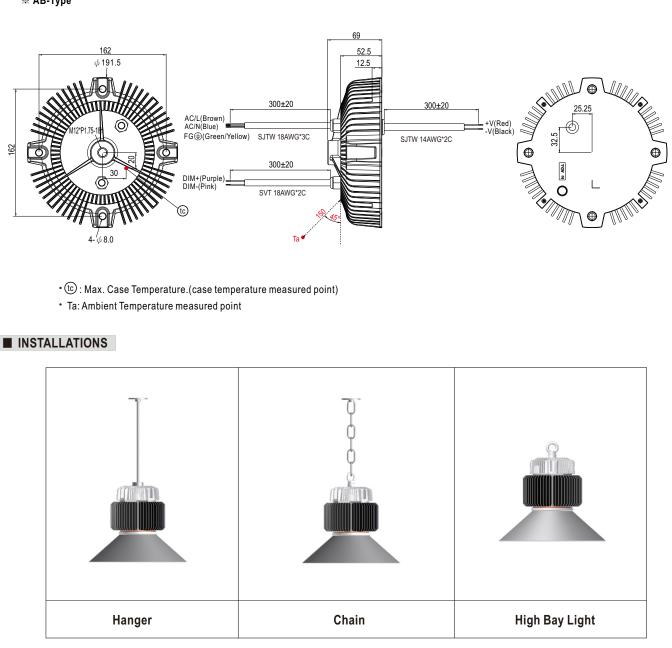






### HBG-240 series

※ 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.
- 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.
- Please thoroughly follow the preceding cautionary notes to prevent the luminaire from falling, leading to injuries.