





Features

- Constant Voltage + Constant Current mode output
- MEAN WELL patented circular metal housing with class I design(Patent No.: CN201220314551)
- 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

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

HBG - 240 - 36	Α	
		 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
DA	IP67	DALI control technology.	In Stock

(for DA Type only) (except for DA Type)

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



HBG-240 series

SPECIFICATION

MODEL		HBG-240-24	HBG-240-36	HBG-240-48	HBG-240-60			
MODEL	DC VOLTAGE	24V	36V	48V	60V			
	CONSTANT CURRENT REGION Note.2		21.6 ~ 36V	28.8~48V	36~60V			
	CONSTANT CORRENT REGION NOTE.2	14.4 241	21.0 ~ 300	20.0 40 0	30 * 00 V			
	(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-Type (via built-in potentiometer)						
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							
	HOLD UP TIME (Typ.)	15ms /115VAC, 230VAC						
	noeb of thme (typ.)	90 ~ 305VAC 127 ~ 431VDC						
	VOLTAGE RANGE Note.5							
	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%	93.5%			
	AC CURRENT (Typ.)	2.5A / 115VAC 1.3A / 230	VAC 1.2A / 277VAC					
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=680)	us measured at 50% Ipeak) at 23	30VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A							
		2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	OVER CURRENT	95 ~ 108%						
		Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION	SHORT CIRCUIT		atically after fault condition is r	removed				
	OVER VOLTAGE	27 ~ 34V	43 ~ 52V	52 ~ 63V	62 ~ 85V			
		Shut down and latch off o/p vol	tage, 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 STANDARDS	UL8750,CSA C22.2 No.250.13-12, ENEC EN61347-1, EN61347-2-13 independent, EN62384; IP65 or IP67 approved						
	DALI STANDARDS	Compliance to IEC62386-101, 102, 207 for DA-Type only						
SVEETA 0	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
EMC	EMC EMISSION Note.9							
		Compliance to EN55015, EN61000-3-2 Class C (@load ≧75%); EN61000-3-3						
	EMC IMMUNITY MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge immunity:Line-Earth:4KV,Line-Line:2KV)						
		663.8K hrs min. Telcordia SR-332 (Bellcore); 190.7Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	φ 191.5mm *69mm (D * H)						
	PACKING	2.1Kg; 8pcs/18.3Kg/2.09CUFT						
NOTE	 Please refer to "DRIVING M Ripple & noise are measure Tolerance : includes set up De-rating may be needed u Length of set up time is me The DA type power supply The driver is considered as by the complete installation The model certified for CCC To fulfill requirements of the connected to the mains. 	IOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. DRIVING METHODS OF LED MODULE". re measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. des set up tolerance, line regulation and load regulation. e needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. time is measured at cold first start. Turning ON/OFF the driver may lead to increase of the set up time. wer supply is less efficient than the A type power supply by 1%. Isidered as a component that will be operated in combination with final equipment. Since EMC performance will be affected installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. ed for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. nents of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently e mains. ets 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 the warranty statement on MEAN WELL's website at http://www.meanwell.com						





Typical output current normalized by rated current (%)

100

lo(%)

50







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

■ INSTALLATIONS



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