



### GTIN CODE

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

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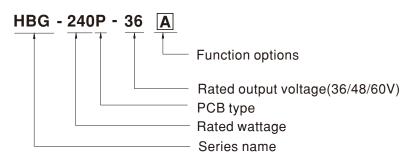
## Features

- · Constant Voltage + Constant Current mode output
- Circular shape PCB type design
- · Built-in active PFC function
- · Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime>50000 hours
- 5 years warranty

### Description

HBG-240P series is a 240W AC/DC PCB type LED driver featuring the circular shape design. It operates from  $90 \sim 305$  VAC and offers the dual mode constant voltage and constant current output models with different rated voltage ranging between 36V and 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 ~ +45  $^{\circ}$ under free air convection. HBG-240P is equipped with various function options, such as dimming methodology, so as to provide the optimal design flexibility for LED lighting system.

## Model Encoding



Туре	Function	Note
A	lo adjustable through built-in potentiometer.	In Stock
В	3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock



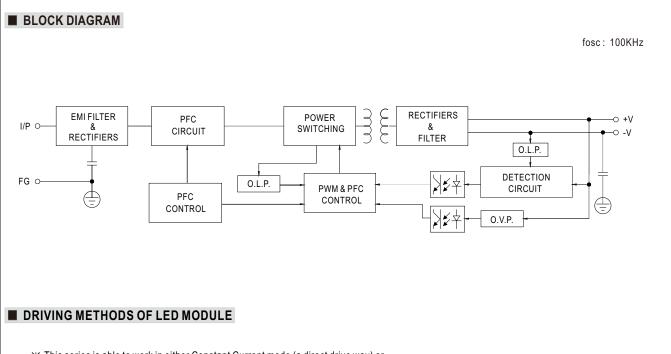
# 240W Constant Voltage + Constant Current LED Driver HBG-240P series

### SPECIFICATION

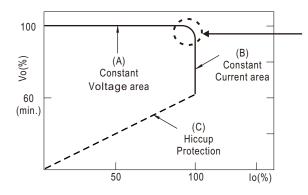
MODEL		HBG-240P-36	HBG-240P-48	HBG-240P-60	
	DC VOLTAGE	36V	48V	60V	
OUTPUT	CONSTANT CURRENT REGION Note.2		28.8 ~ 48V	36 ~ 60V	
	RATED CURRENT	6.7A	5A	4.0A	
	RATED POWER Note.5	241.2W	240W	240W	
	RIPPLE & NOISE (max.) Note.3		250mVp-p	350mVp-p	
	RIFFLE & NOISE (IIIdx.) Note.s			330mvp-p	
	CURRENT ADJ. RANGE	Adjustable for A-Type only (via built-in pote	,	0.4.4.00	
		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	2500ms, 120ms / 115VAC 500ms, 120ms / 230VAC			
	HOLD UP TIME (Typ.)	15ms/115VAC,230VAC			
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR	$\label{eq:PF} \begin{array}{l} PF{\cong}0.98/115VAC, PF{\cong}0.94/230VAC, PF{\cong}0.9/277VAC{@} full \ load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) array$			
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)			
	EFFICIENCY (Typ.)	92.5%	93%	93.5%	
	AC CURRENT	2.8A / 115VAC 1.4A / 230VAC 1	.2A / 277VAC		
	INRUSH CURRENT(Typ.)	COLD START 75A(twidth=680µs measured	d 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			
	NO LOAD / STANDBY	Standby power consumption <0.5W for B-Type			
	POWER CONSUMPTION	A-Type please refer to Note.8			
	OVER CURRENT	95~108%			
		Constant current limiting, recovers automatically after fault condition is removed			
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.			
	OVER VOLTAGE	43 ~ 52V     52 ~ 63V     62 ~ 85V       Shut down and latch off o/p voltage, re-power on to recover			
	OVER TEMPERATURE Note.12	Shut down o/p voltage, recovers automatically after temperature goes down			
	WORKING TEMP.	Ta=-40 ~ +45℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)			
	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, 2G 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,BS EN/EN62384, GB19510.1,GB19510.14, EAC TP TC 004 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
EMC	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≧75%) ; BS EN/EN61000-3-3, GB17743, 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	2290.4K hrs min. Telcordia SR-332 (Bellco	re) 175.1Khrs min. MIL-HDBK-217	F (25℃)	
	DIMENSION	Refer to mechanical specification			
	PACKING	0.62Kg; 20pcs/13.4Kg/1.11CUFT			
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.</li> <li>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.</li> <li>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.</li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Ta is about 45°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>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).</li> <li>All functional testing must be filled with potting, including OTP function .</li> </ol>				



# 240W Constant Voltage + Constant Current LED Driver HBG-240P series



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.

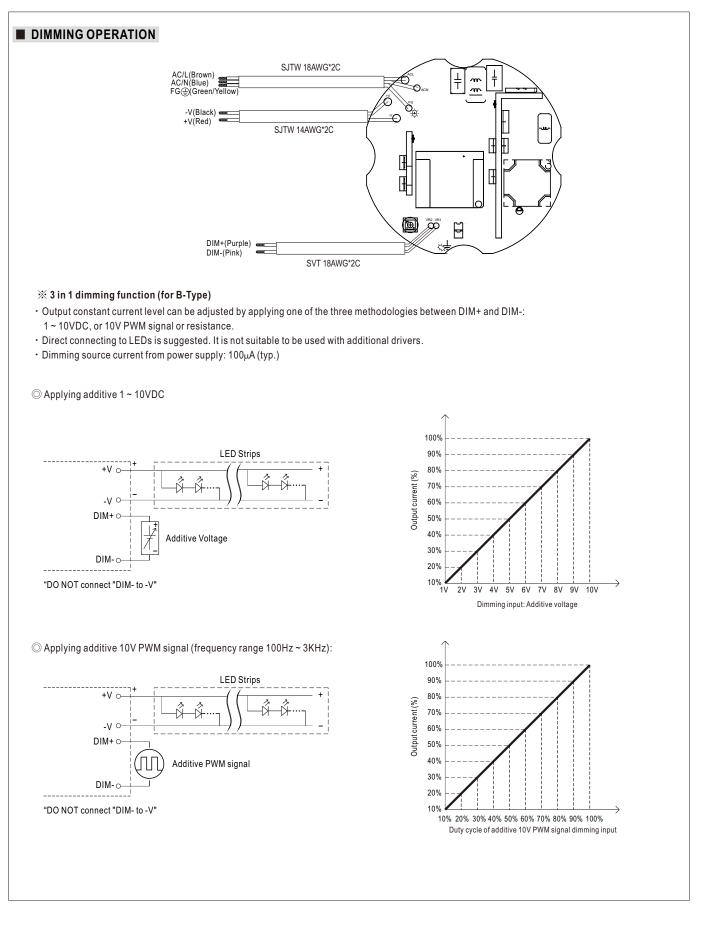


Typical output current normalized by rated current (%)

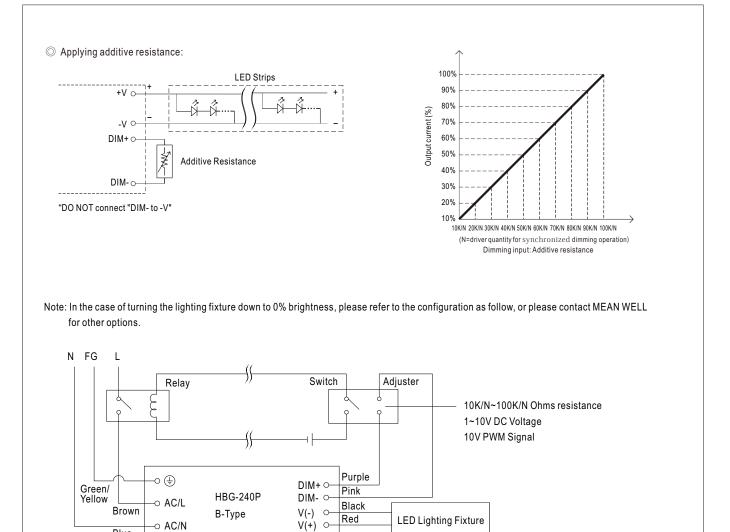
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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







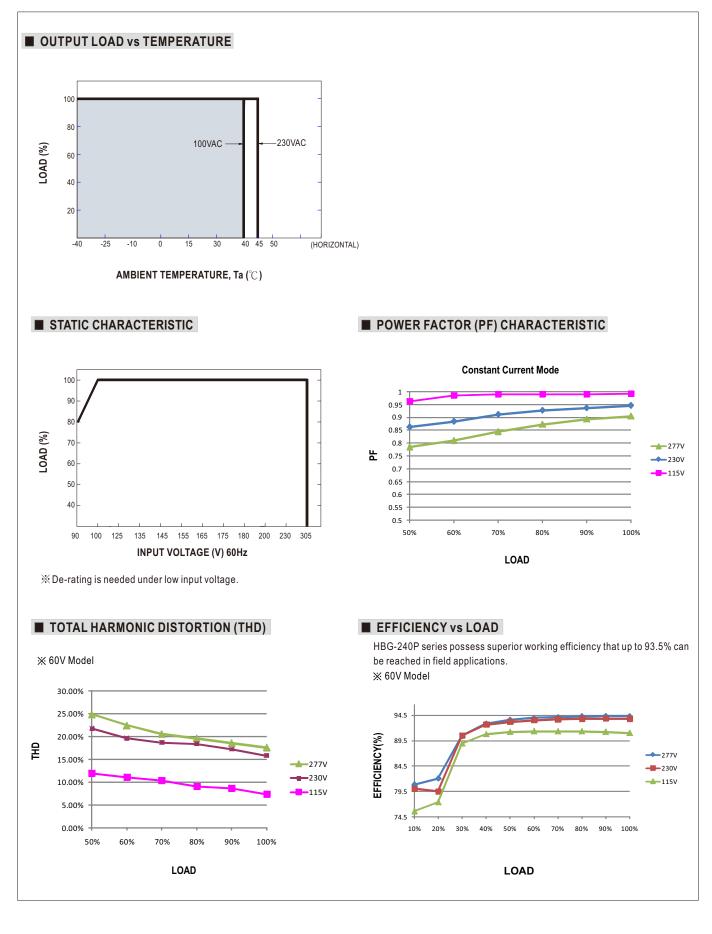


Using a switch and relay can turn ON/OFF the lighting fixture.

Blue



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#### MECHANICAL SPECIFICATION

