



### GTIN CODE

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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

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	HBG-240P-36	HBG-240P-48	HBG-240P-60	
DC VOLTAGE	36V	48V	60V	
CONSTANT CURRENT REGION Note.2	21.6 ~ 36V	28.8~48V	36 ~ 60V	
RATED CURRENT		5A	4.0A	
			240W	
			350mVp-p	
CURRENT ADJ. RANGE				
		3 3A	2.7 7.07	
HOLD OP TIME (Typ.)				
VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)			
FREQUENCY RANGE				
POWER FACTOR	PF≥0.98/115VAC, PF≥0.94/230VAC, PF≥0.9/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)			
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 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 CURRENT				
			62 ~ 85V	
OVER VOLTAGE			62~85V	
	-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			
WITHSTAND VOLTAGE	GE 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 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	2290.4K hrs min. Telcordia SR-332 (Bell	core) 175.1Khrs min. MIL-HDBK-2	217F (25°C)	
DIMENSION	Refer to mechanical specification			
PACKING	0.62Kg; 20pcs/13.4Kg/1.11CUFT			
<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 200Hz 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</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>Alf functional testing must be filled with potting, including OTP function .</li> <li>Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>				
	CONSTANT CURRENT REGION Note.2 RATED CURRENT RATED POWER Note.5 RIPPLE & NOISE (max.) Note.3 CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE Note.11 WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT speciall 2. Please refer to "DRIVING MI 3. Ripple & noise are measure 4. Tolerance : includes set up to 5. De-rating may be needed uf 6. Length of set up time is measure 4. Tolerance : includes set up to 5. De-rating may be needed uf 6. Length of set up time is measure 4. Tolerance : includes set up to 5. De-rating may be needed uf 6. Length of set up time is measure 4. Tolerance : includes set up to 5. De-rating may be needed uf 6. Length of set up time is measure 4. Tolerance : includes set up to 5. De-rating may be needed uf 6. Length of set up time is measure 4. Tolerance : includes set up to 5. De-rating may be needed uf 6. Length of set up time is measure 7. The driver is considered as is complete installation, the final (as available on https://www. 8. Phis seer effer to "DRIVING MI 9. Phis seer effer to the warranty 10. The ambient temperature considered as is complete installation, the final (as available on https://www. 8. Phis seer effer to the warranty 10. The ambient temperature considered as is complete installation, the final (as available on https://www. 10. The ambient temperature considered as is complete installation, the final (as available on https://www. 10. The ambient temperature considered as is complete installation, the final (as available on https://www. 11. All paramete	DC VOLTAGE         36V           CONSTANT CURRENT REGION Note:         21.6 ~ 36V           RATED CURRENT         6.7A           RATED POWER         Note:         241.2W           RIPPLE & NOISE (max.) Note:         250mVp-p           CURRENT ADJ. RANGE         Adjustable for A-Type only (via built-in pr 4.0 ~ 6.7A           VOLTAGE TOLERANCE Note:         42.0%           LINE REGULATION         ±0.5%           SETUP, RISE TIME Note:         2500ms, 120ms / 115VAC 500ms, 1           HOLD UP TIME (Typ.)         15ms/115VAC, 230VAC           VOLTAGE RANGE         Note:           SETUP, RISE TIME Note:         2500ms, 120ms / 115VAC 500ms, 1           FREQUENCY RANGE         47 ~ 63Hz           POWER FACTOR         PF ≥ 0.38/115VAC, PF ≥ 0.94/230VAC, P           POWER FACTOR         THD < 20%(@load≥60%/115VC, 230VA (Please refer to "TOTAL HARMONIC DI           EFFICIENCY (Typ.)         92.5%           AC CURRENT         2.8A / 115VAC           AC URRENT         2.8A / 115VAC           IRRUSH CURRENT         0.75mA / 277VAC           OVER CURRENT         20.75mA / 277VAC           OVER VOLTAGE         43 ~ 52V           OVER VOLTAGE         187 ~ 52V           OVER TEMPERATURE Note.11         Notdwn on/p voltage, recove	DC VOLTAGE         36V         48V           CONSTATUCURRENT EGGIN Kusz         21.6 - 36V         28.8 - 48V           RATED CURRENT         6,7A         5A           RATED CURRENT         6,7A         5A           RATED CURRENT ADJ. RANCE         241.2W         240W           CURRENT ADJ. RANCE         4(4) + 6A.7         3 - 5A           VOLTAGE TOLERANCE Nets.         220m/V-p         250m/V-p           LIDR FEGULATION         ±0.5%         5           LIDR FEGULATION         ±0.5%         5           SETUP, RISE TIME Note.5         2500ms, 120ms, 120ms, 120ms / 230VAC         5           VOLTAGE RANCE         Notes.3         2500/V-C         127 - 437VDC           VOLTAGE RANCE         Notes.3         200VC         127 - 437VDC           VOLTAGE RANCE         Notes.3         90 - 305WAC         127 - 437VDC           POWER FACTOR         (PE=0.98/115WAC, PE = 0.94/230VAC, PE = 0.9277VAC@[ull load         (PE=0.98/115WAC, 230VAC, PE = 0.9277VAC@[ull load           TOTAL HARMONIC DISTORTION         THD ≤ 02% (@load280%/115WC 230VAC, PE = 0.9277VAC@[ull load         (PE=0.9274VAC 1.4A/230VAC           TAC CURRENT         2.8A / 115VAC         1.4A/230VAC         1.2A/277VAC           REFICIENCY (Typ.)         92.5%         93% <t< td=""></t<>	



## 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.



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#### MECHANICAL SPECIFICATION

