





(for DA Type only) SELV (105 c PLus [III @ CBCE CK

Features

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

Applications

- LED bay lighting
- LED down lighting
- LED spot lighting
- LED mining lighting
- LED stage lighting

GTIN CODE

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

Description

HBG-100P series is a 100W AC/DC PCB type LED driver featuring the circular shape design. It operates from $90 \sim 305$ VAC and offers constant current output models with different rated voltage ranging between 36V and 60V. Thanks to the high efficiency up to 91.5%, with the fanless design, the entire series is able to operate for -40° C $\sim +45^{\circ}$ C under free air convection. HBG-100P 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
DA	DALI control technology.	In Stock



SPECIFICATION

MODEL		HBG-100P-36	HBG-100P-48	HBG-100P-60		
	RATED CURRENT	2.7A	2A	1.6A		
OUTPUT	RATED POWER	97.2W	96W	96W		
	CONSTANT CURRENT REGION Note.2	21.6 ~ 36V	28.8~48V	36~60V		
	OPEN CIRCUIT VOLTAGE(max.)	37V	49V	62V		
		Adjustable for A-Type only (via built-in potentiometer)				
	CURRENT ADJ. RANGE	1 62 ~ 2 7A	12~2A	1.0~1.6A		
		5.0% max_@rated current				
	CURRENT TOLERANCE	+5.0%				
	SET UP TIME Note 4	2000ms / 115VAC 500ms / 230VAC				
	VOLTAGE RANGE Note.3	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	$\label{eq:product} \begin{array}{l} PF{\geq}0.96/115VAC, PF{\geq}0.96/230VAC, PF{\geq}0.94/277VAC@ full \ load \\ (Please \ refer \ to \ "POWER \ FACTOR \ (\mathsf{PF) \ CHARACTERISTIC" \ section) \end{array}$				
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
INPUT	EFFICIENCY (Typ.) Note.5	91%	91%	91.5%		
	AC CURRENT	1.1A/115VAC 0.5A/230VAC 0.45A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=550 μ s measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	OVER CURRENT	95 ~ 108%				
		Constant current limiting, recovers au	tomatically after fault condition is remove	ved		
PROTECTION		41~49V	54 ~ 63V	65 ~ 75V		
	OVER VOLIAGE	Shut down o/p voltage, re-power on to	recovery			
	OVER TEMPERATURE Note.10	Shut down o/p voltage, re-power on to recovery				
	WORKING TEMP.	Ta=-40 ~ +45 $^\circ C$ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0~45°C)				
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes				
SAFETY & EMC	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				
	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			
	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 ≧60%) ; 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 Line-Line:2KV),EAC TP TC 020	4,5,6,8,11, BS EN/EN61547,light industr	y level(surge immunity:Line-Earth:4KV,		
OTHERS	MTBF	2612.1K hrs min. Telcordia SR-332	2 (Bellcore) ;346.9K hrs min. MIL-HE	0BK-217F (25℃)		
	DIMENSION	Refer to mechanical specification				
	PACKING	0.3Kg; 45pcs/14.5Kg/1.60CUFT				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. The DA type power supply is less efficient than the typical efficiency in specification by 1%. 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) This series meets the typical life expectancy of >50,000 hours of operation when Ta is about 45°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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). All functional testing must be filled with potting, including OTP function . Xeroduct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 					













Purple

Pink

Black

Red

DIM+ ↔

DIM- O-

V(-) ↔

V(+) ↔

1~10V DC Voltage 10V PWM Signal

LED Lighting Fixture

Using a switch and relay can turn $\ensuremath{\mathsf{ON/OFF}}$ the lighting fixture.

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-o AC/L

-o AC/N

HBG-100P

B-Type

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

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

Brown

Blue

Green/ Yellow







MECHANICAL SPECIFICATION

