



(for DA Type only) SELV (105 c) US [III (C) CBCE (K

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

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	· · · · · · · · · · · · · · · · · · ·	28.8 ~ 48V	36 ~ 60V		
	OPEN CIRCUIT VOLTAGE(max.)		49V	62V		
		Adjustable for A-Type only (via b				
	CURRENT ADJ. RANGE	1.62 ~ 2.7A	1.2~2A	1.0 ~ 1.6A		
	CURRENT RIPPLE	5.0% max. @rated current				
	CURRENT TOLERANCE	±5.0%				
	SET UP TIME Note.4	2000ms / 115VAC 500ms / 230VAC				
-		90 ~ 305VAC 127 ~ 431VDC				
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
		PF≧0.96/115VAC, PF≧0.96/230VAC, PF≧0.94/277VAC@full load				
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC)				
			IONIC DISTORTION(THD)" section			
	EFFICIENCY (Typ.) Note.5	91%	91%	91.5%		
	AC CURRENT	1.1A / 115VAC 0.5A / 230V				
	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				
	NO LOAD / STANDBY	Standby power consumption <0.5W for B/DA-Type				
	POWER CONSUMPTION	A-Type please refer to Note. 7				
		95~108%				
	OVER CURRENT Constant current limiting, recovers automatically after fault condition is removed					
PROTECTION		41~49V	54 ~ 63V	65 ~ 75V		
	OVER VOLTAGE	Shut down o/p voltage, re-powe		00 100		
	OVER TEMPERATURE Note.11					
	WORKING TEMP.	Ta=-40 ~ +45°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)				
	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 STANDARDS	UL8750,CSA C22.2 No.250.13-12; ENEC BS EN/EN61347-1,BS EN/EN61347-2-13,BS EN/EN62384, GB19510.1,				
	DALI STANDARDS	GB19510.14,EAC TP TC 004 approved Compliance to IEC62386-101, 102, 207 for DA-Type only				
	WITHSTAND VOLTAGE					
SAFETY &		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≧60%) ; BS EN/EN61000-3-3,				
	EMC EMISSION	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				
OTHERS	MTBF	346.8Khrs min. MIL-HDBK-2	217F (25°C)			
	DIMENSION	Refer to mechanical specification	on			
	PACKING	0.3Kg; 45pcs/14.5Kg/1.60CUF	Γ			
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. 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. 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 . X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 					















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.







