





(for DA Type only) SELV (105 c ALus [III @ CBCE KA

#### 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

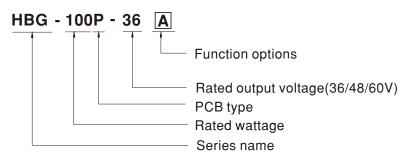
#### GTIN CODE

MW Search: <a href="https://www.meanwell.com/serviceGTIN.aspx">https://www.meanwell.com/serviceGTIN.aspx</a>

#### Description

HBG-100P series is a 100W AC/DC PCB type LED driver featuring the circular shape design. It operates from 90 $\sim$ 305VAC 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°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



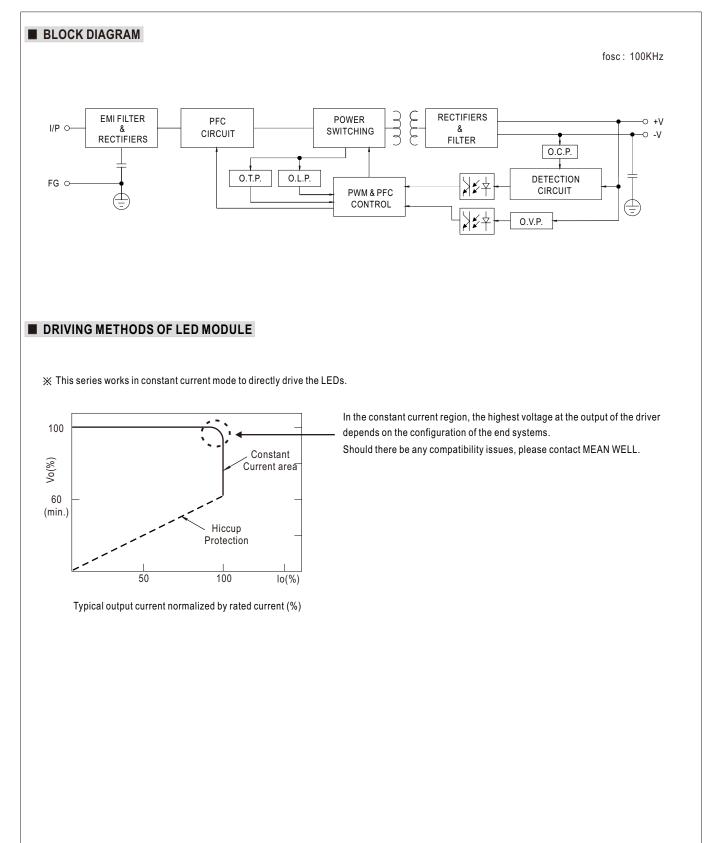
Туре	Function	Note
A	lo adjustable through built-in potentiometer.	In Stock
В	3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
DA	DALI control technology.	In Stock



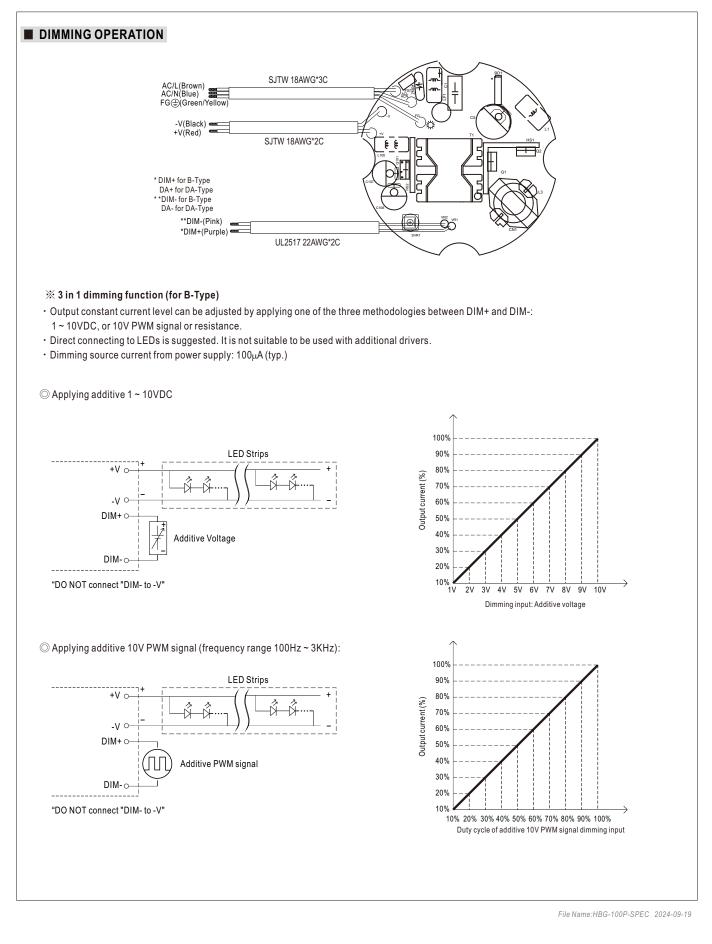
#### SPECIFICATION

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.)		49V	62V		
		Adjustable for A-Type only (via built	t-in potentiometer)			
	CURRENT ADJ. RANGE	1.62 ~ 2.7A	1.2 ~ 2A	1.0 ~ 1.6A		
	CURRENT RIPPLE	5.0% max. @rated current	1			
	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	$PF \ge 0.96/115VAC$ , $PF \ge 0.96/230VAC$ , $PF \ge 0.94/277VAC$ @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)				
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 $\mu s$ 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				
		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-power or	n to recovery			
	OVER TEMPERATURE Note.10	Shut down o/p voltage, re-power on to recovery				
ENVIRONMENT	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, peri	od for 72min. each along X, Y	r. 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/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level(surge immunity:Line-Earth:4KV, Line-Line:2KV), EAC TP TC 020				
OTHERS	MTBF	2612.1K hrs min. Telcordia SR-	332 (Bellcore) ;346.9K hrs mir	n. MIL-HDBK-217F (25°C)		
	DIMENSION	Refer to mechanical specification				
	PACKING	0.3Kg; 45pcs/14.5Kg/1.60CUFT				
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>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 power supply may lead to increase of the set up time.</li> <li>The DA type power supply is less efficient than the typical efficiency in specification by 1%.</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>All 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>					

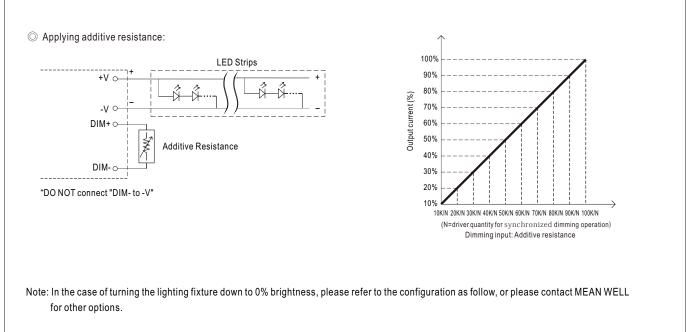


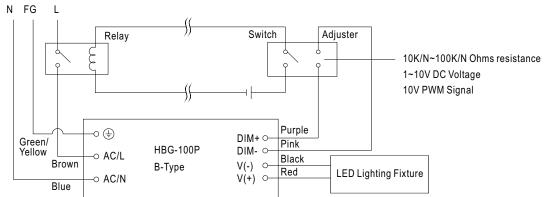










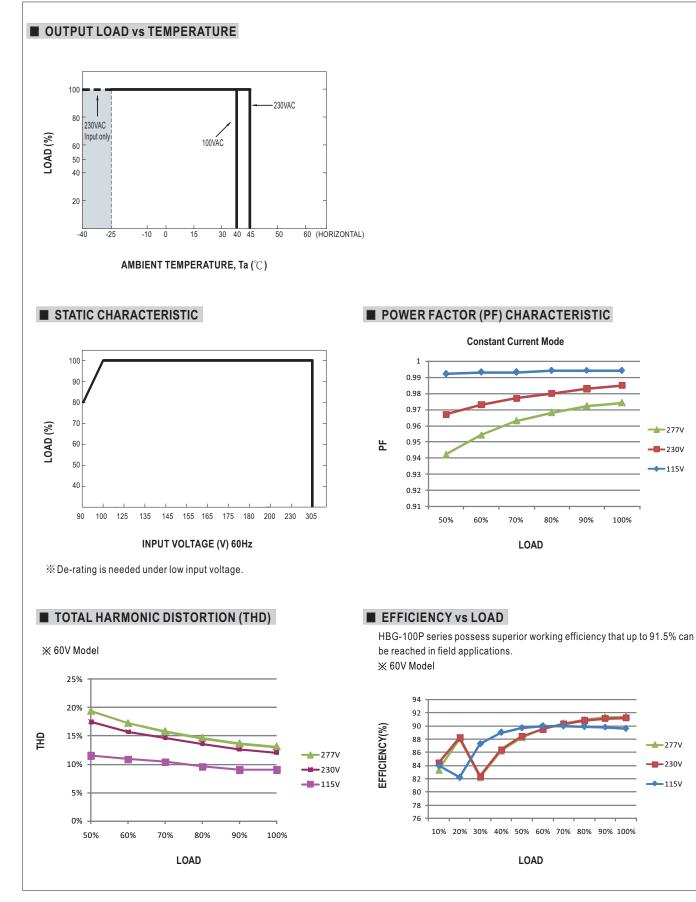


Using a switch and relay can turn ON/OFF the lighting fixture.

#### $\%\,$ 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.







#### MECHANICAL SPECIFICATION

