# imall

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## HBG-100P series



#### 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

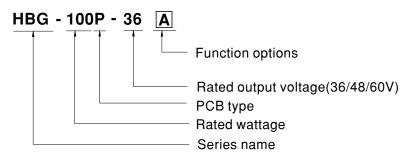
#### Applications

- 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  $-40^{\circ}$ 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

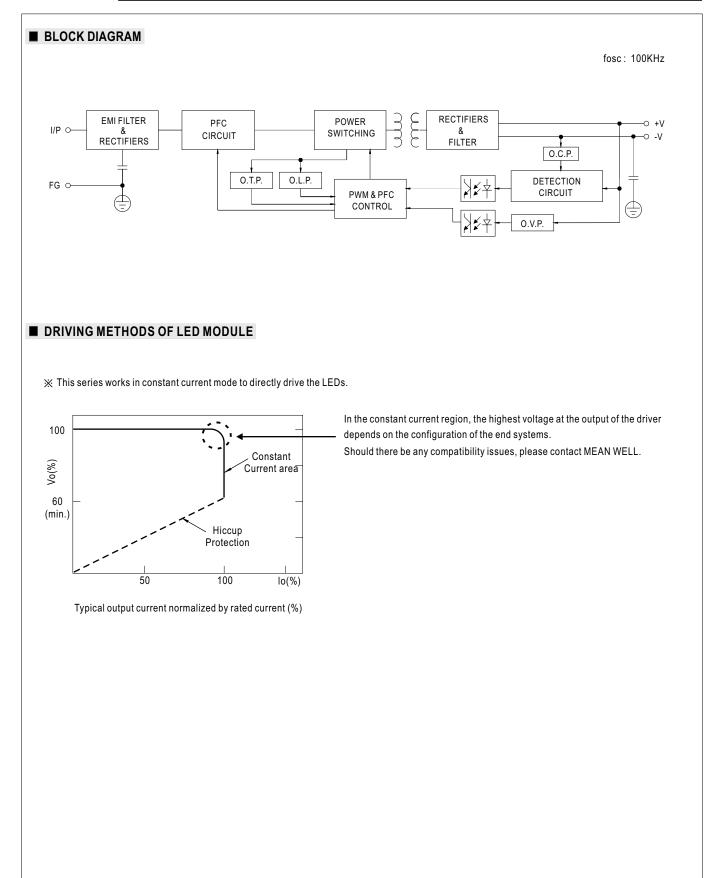


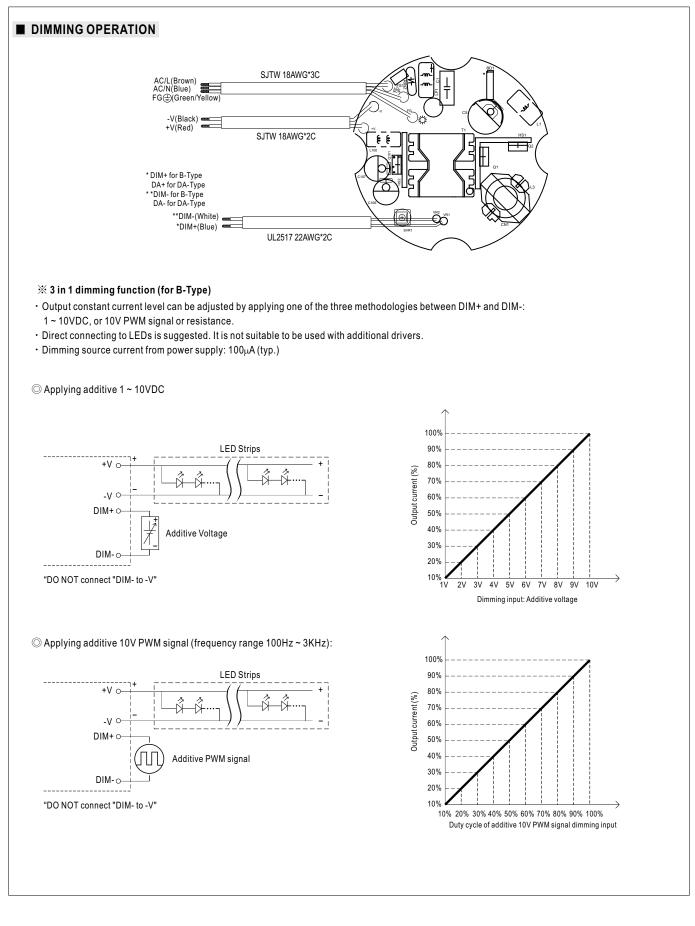
Туре	Function	Note
A	lo adjustable through built-in potentiometer.	In Stock
В	3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
DA	DALI control technology.	In Stock

# HBG-100P series

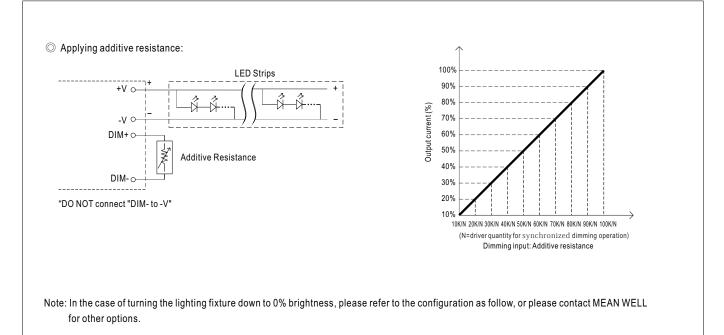
#### SPECIFICATION

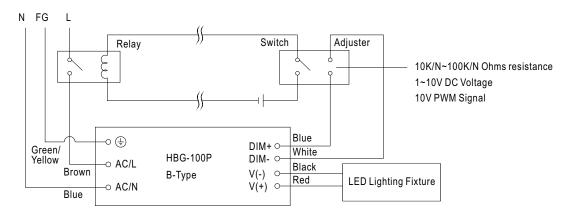
MODEL		HBG-100P-36 🗌	HBG-100P-48	HBG-100P-60	
	RATED CURRENT	2.7A	2A	1.6A	
OUTPUT	RATED POWER	97.2W	96W	96W	
	CONSTANT CURRENT REGION Note.2		28.8~48V	36~60V	
	OPEN CIRCUIT VOLTAGE(max.)		49V	62V	
	CURRENT ADJ. RANGE	Adjustable for A-Type only (via built-in potentiometer)			
		1.62 ~ 2.7A         1.2 ~ 2A         1.0 ~ 1.6A			
	CURRENT RIPPLE	5.0% max. @rated current	1.2 2/	1.0 1.0/(	
	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			
	POWER FACTOR	$\label{eq:PF} \begin{split} PF &\geq 0.96/115 VAC, PF &\geq 0.96/230 VAC, PF &\geq 0.94/277 VAC @ full \ load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) split$			
	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=550µs 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%			
PROTECTION	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	41~49V	54 ~ 63V	65 ~ 75V	
		Shut down o/p voltage, re-power on to	orecoverv		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recovery			
	WORKING TEMP.	Ta=-40 ~ +45°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
ENVIRONMENT		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 EN61347-1,EN61347-2-13,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			
SAFETY &	ISOLATION RESISTANCE	I/P-O/P.J./ 5KVAC //P-FG.2KVAC 0/P-FG.0.5KVAC			
EMC					
		Compliance to EN55015, EN61000-3-2 Class C (@load ≧60%) ; EN61000-3-3, GB17743, GB17625.1,EAC TP TC 020			
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level(surge immunity:Line-Earth:4KV,Line-Line:2KV),EAC TP TC 020			
OTHERS	MTBF	346.8Khrs min. MIL-HDBK-217F (	20()		
	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.</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 <a href="http://www.meanwell.com">http://www.meanwell.com</a></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 200m(6500ft)</li> </ol>				





# HBG-100P series





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.

