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#### Features

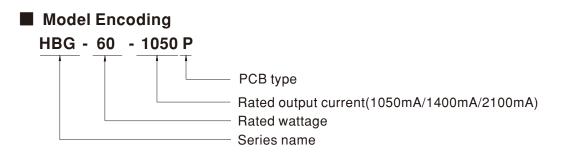
- Constant Current mode output
- · Circular shape PCB type design with class II design
- Built-in active PFC function
- · Class 2 power unit
- Typical lifetime>50000 hours
- 5 years warranty

### Applications

- · LED bay lighting
- LED stage lighting
- LED spot lighting
- LED down lighting

### Description

HBG-60-P series is a 60W AC/DC PCB type LED driver featuring the circular shape design. It operates from  $90 \sim 295$ VAC and offers the constant current output models with different rated current between 1050mA and 2100mA. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C  $\sim +70^{\circ}$ C ambinent temperature under free air convection.





### 60W Constant Current Mode LED Driver

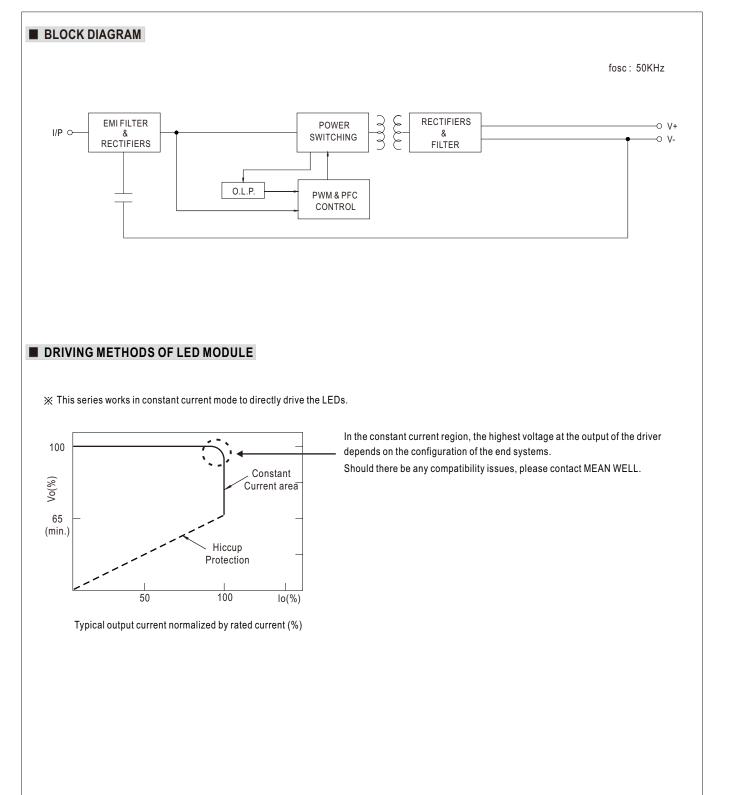
# HBG-60-P series

#### SPECIFICATION

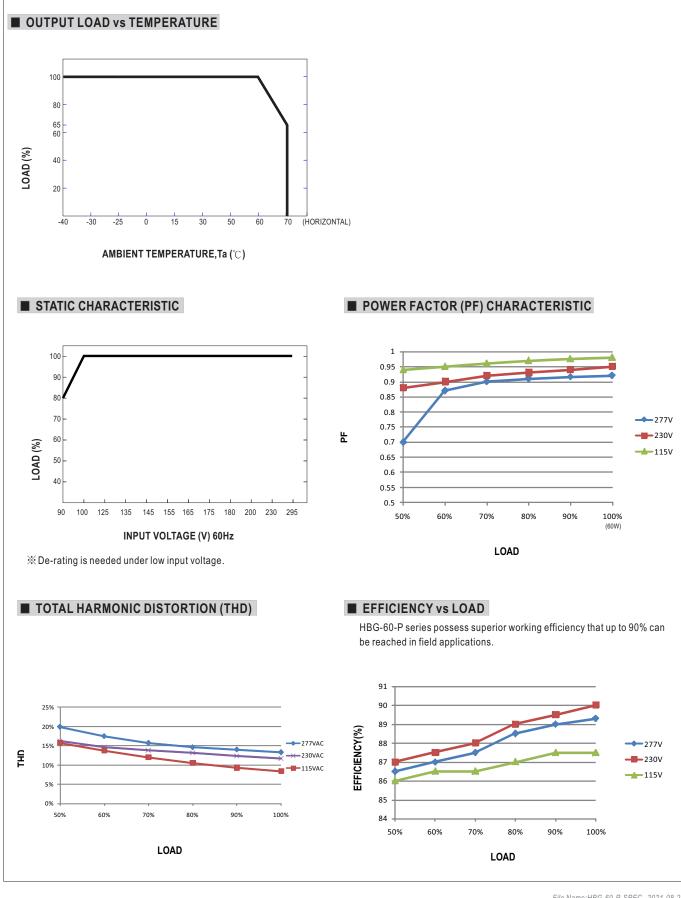
MODEL		HBG-60-1050P	HBG-60-1400P	HBG-60-2100P
	RATED CURRENT	1050mA	1400mA	2100mA
OUTPUT	RATED POWER	57.75W	60.2W	60.9W
	CONSTANT CURRENT REGION Note.2	37 ~ 55V	28~43V	19~29V
	OPEN CIRCUIT VOLTAGE(max.)	60V	50V	35V
	CURRENT ADJ. RANGE	680 ~ 1050mA	910 ~ 1400mA	1360mA ~ 2100mA
	CURRENT RIPPLE	25% max. @rated current		
	CURRENT TOLERANCE	±5.0%		
	SET UP TIME Note.4	500ms / 230VAC 1200ms / 115VAC		
INPUT	VOLTAGE RANGE Note.3	90 ~ 295VAC 127 ~ 417VDC (Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.9/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧65%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)		
	EFFICIENCY (Typ.)	90%	89%	89%
	AC CURRENT (Typ.)	0.7A/115VAC 0.4A/230VAC 0.3/	A/277VAC	
	INRUSH CURRENT (Typ.)	COLD START 45A(twidth=100 $\mu s$ measured at 50% Ipeak) at 230 VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	28 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 277VAC		
PROTECTION	OVER CURRENT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Ta=-40 ~ +70°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 (0~60°C)		
	VIBRATION	10 ~ 500Hz, 5G 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, GB19510.14, GB19510.1 independent, EAC TP TC 004 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH		
	EMC EMISSION Note.8	Compliance to BS EN/EN55015, GB17743, GB17625.1, BS EN/EN61000-3-2 Class C (@load ≧65%) ; BS EN/EN61000-3-3,EAC TP TC 020		
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, BS EN/EN55024, light industry level(surge immunity: Line-Line:2KV),EAC TP TC 020		
OTHERS	MTBF	1504.1K hrs min. Telcordia SR-332 (Bellcore) ; 452K hrs min. MIL-HDBK-217F ( $25^{\circ}$ C)		
	DIMENSION	φ 99mm *26mm (D * H)		
	PACKING	0.21Kg; 45pcs/ 10.4Kg/ 1.03CUFT		
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 cold first 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.</li> <li>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.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>			

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