

#### Features :

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- Protections: Short circuit / Over current / Over voltage / Over temperature

HBG-240 series

- OCP point adjustable through output cable or internal potentiometer
- IP67/IP65 design for indoor or outdoor installations
- Suitable for dry / damp / wet locations
- \* 5 years warranty, Tc70 $^\circ\!\mathrm{C}$  40000hrs

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HBG-240-60 A Blank : IP67 rated. Cable for I/O connection.

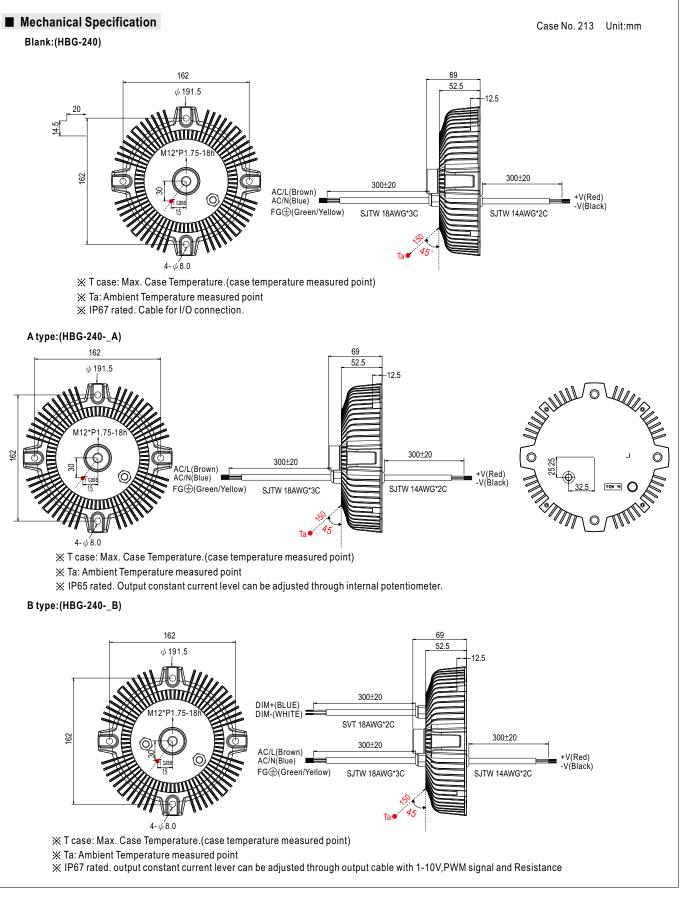
A : IP65 rated. Output constant current level can be adjusted through internal potentiometer.

B : IP67 rated. output constant current lever can be adjusted through output cable with 1-10V, PWM signal and Resistance

MODEL		HBG-240-24	HBG-240-36	HBG-240-48	HBG-240-60
OUTPUT	DC VOLTAGE	24V	36V	48V	60V
	CONSTANT CURRENT REGION Note.4	14.4 ~ 24V	21.6 ~ 36V	28.8 ~ 48V	36 ~ 60V
	RATED CURRENT	10A	6.7A	5A	4.0A
	RATED POWER	240W	240W	240W	240W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	250mVp-p	250mVp-p	350mVp-p
	CURRENT ADJ. RANGE	Can be adjusted by internal pot	tentiometer A type only		
		6~10A	4.0 ~ 6.7A	3 ~ 5A	2.4 ~ 4.0A
	VOLTAGE TOLERANCE Note.3	±2.0%			
	LINE REGULATION	±0.5%			
	LOAD REGULATION Note.3	3 ±0.5%			
	SETUP, RISE TIME Note.7	2500ms,120ms at full load 230VAC /115VAC			
	HOLD UP TIME (Typ.)	15ms at full load 230VAC /115VAC			
INPUT	,	90 ~ 305VAC 127 ~ 431VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC, PF>0.93/277VAC at full load (Please refer to "Power Factor Characteristic" curve)			
	EFFICIENCY (Typ.)	92.5%	92.5%	93%	93.5%
	AC CURRENT (Typ.)	2.5A / 115VAC 1.3A / 230			
	MAX.LED DRIVE NUMBER ON MCB C TYPE 16A	8units@230VAC			
	INRUSH CURRENT (Typ.)	COLD START 75A(twidth=680µs measured at 50% Ipeak) at 230VAC			
	LEAKAGE CURRENT	<0.75mA/277VAC			
PROTECTION	OVER CURRENT Note.4	. 95 ~ 108%			
		Protection type : Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.			
		27 ~ 34V	43 ~ 52V	52~63V	62 ~ 85V
	OVER VOLTAGE	Protection type : Shut down and latch off o/p voltage, re-power on to recover			
		95°C±5°C (TSW1)			
	OVER TEMPERATURE Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")			
		20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
	SAFETY STANDARDS	UL8750,CSA C22.2 No.250.13-12,EN61347-1,EN61347-2-13,EN62384 approved			
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC 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 EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≧75% load) ; EN61000-3-3			
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level (surge 4KV), criteria A			
	EMC IMMUNITY MTBF	190.7Khrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	Refer to mechanical specification			
		•			
IOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Constant current operation r reconfirm special electrical r</li> <li>Derating may be needed un</li> <li>The power supply is consider</li> </ol>	2.1Kg; 8pcs/17.8Kg/2.09CUFT Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. region is within 60% ~100% rated output voltage. This is the suitable operation region for LED related applications, but please requirements for some specific system design. nder low input voltages. Please check the static characteristics for more details. lered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. assured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.			

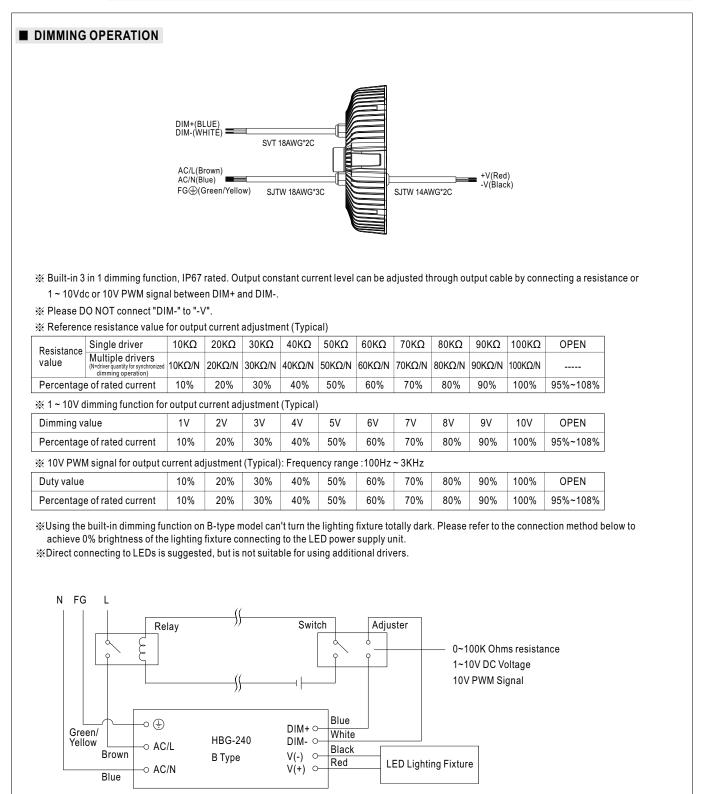


# HBG-240 series





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

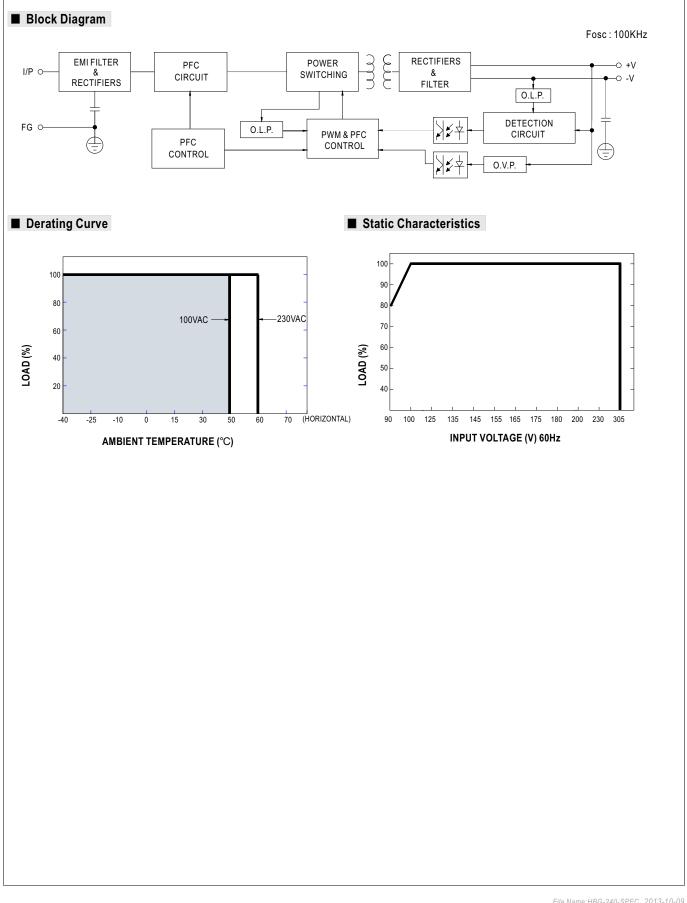
1. Output constant current level can be adjusted through output cable by connecting a resistance or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.

2. The LED lighting fixture can be turned ON/OFF by the switch.



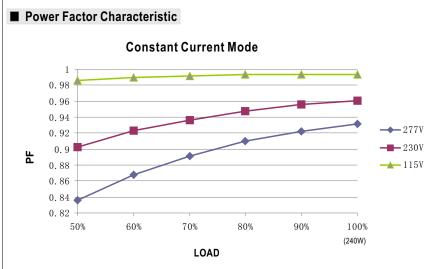
### 240W Output Switching Power Supply

# HBG-240 series



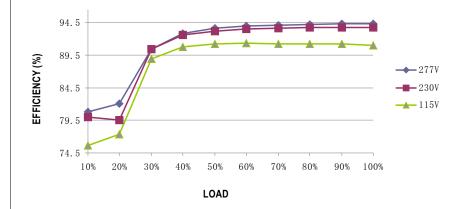


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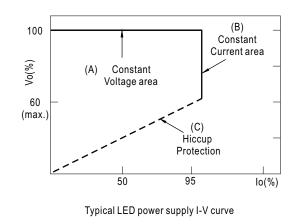
### EFFICIENCY vs LOAD (48V Model)

HBG-240 series possess superior working efficiency that up to 93% can be reached in field applications.



#### DRIVING METHODS OF LED MODULE

There are two major kinds of LED drive method "direct drive" and "with LED driver". A typical LED power supply may either work in "constant voltage mode (CV) or constant current mode (CC)" to drive the LEDs. Mean Well's LED power supply with CV+ CC characteristic can be operated at both CV mode (with LED driver, at area (A) and CC mode (direct drive, at area (B).





### ■ INSTALLATIONS

