



Features :

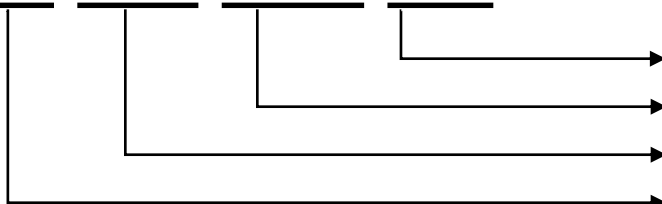
- Metal housing design with functional grounding
- Built-in active PFC function
- Meet IP67 grade, can meet the demand of indoor and outdoor installation.
- Function-option : The output current is adjusted by potentiometer
- Surge Protection: L-N 4kV
- 5 years warranty

Application :

- LED Street Lighting
- LED Architectural Lighting
- LED Patio Lighting
- LED Floodlight
- Other LED Lighting Fixtures

Model Code:

HT-HBG-100H-36A



Function-option (Blank : Conventional A : Adjustable ; B : Dimming + Adjustable ; T : Time Control)
Maximum Output voltage
Rated Power
Series Name
Internal Code

Model List

Model	O/P Voltage	O/P Current	Rated Power	O/P Current Tolerance	THD (Typ.)	PF (Typ.)	Efficiency (Typ.)
HT-HBG-100H-36A	25-36V	2.68A	100W	±5%	13%	0.97	91%
HT-HBG-100H-48A	36-48V	2A	100W	±5%	13%	0.97	91%
Custom-Tailor	/	/	/	/	/	/	/

Input Characteristics

Parameter	Min	Typ.	Max	Remarks
Rated AC input range	100Vac		277Vac	
AC input range	90Vac		305Vac	
Input frequency range	47Hz		63Hz	
Max input current			1.45A	
Inrush current			60A	
No load power		1.0W	1.5W	
Power factor	0.95	0.97		230Vac/50HZ ; full load
	0.90			100-277Vac/50HZ ; 70-100%Load
THD			20%	100-277Vac/50HZ ; 70-100%Load

Output Characteristics

Parameter		Min	Typ.	Max	Remarks
Output voltage range	HBG-100H-36	25V	33V	36V	
	HBG-100H-48	36V	45V	48V	
	Custom-Tailor	/	/	/	
Rated output current	HBG-100H-36			3A	
	HBG-100H-48			2.1A	
	Custom-Tailor	/	/	/	
Current adjustable range	HBG-100H-36	1.8A	3A	3.4A	
	HBG-100H-48	1.5A	2.1A	2.5A	
	Custom-Tailor	/	/	/	
No load voltage	HBG-100H-36	38V	45V	55V	
	HBG-100H-48	50V	58V	65V	
	Custom-Tailor	/	/	/	
Efficiency @230Vac	HBG-100H-36	88%	91%	/	
	HBG-100H-48	88%	91%	/	
	Custom-Tailor	/	/	/	
Output current tolerance		-5%		+5%	
Output current ripple (PK-PK)			3400	5000m	
Start-up current overshoot				10%	
Start-up time			1S	2S	230Vac
Line Regulation		-3%		+3%	
Load Regulation		-3%		+3%	

Other Characteristics

Parameter		Min	Typ.	Max	Remarks
Protection	OTP	90°C	100°C	110°C	Tc, Self-recovery
	Short Circuit Protection	Driver will not damaged with short-circuit power <10W			Hiccup mode
Life time		50000小时			230Vac, full load, Tc 75°C,
Tc				90°C	
Warranty		5 years			Tc: 75°C
Net Weight		1.12KG			
Dimension		130*71			OD X H (mm)

NOTE: All the parameters above are tested Ta 25°C, unless specified.

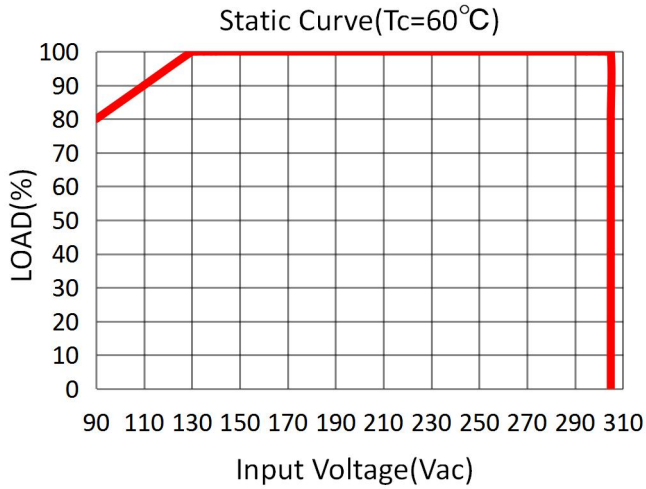
Environmental Requirements

Parameter	Min	Typ.	Max	Remarks
Operating Temperature	-40°C	25°C	+60°C	
Storage Temperature	-40°C	25°C	+85°C	
Operation Humidity	10%RH		90%RH	
Storage Humidity	5%RH		95%RH	
Altitude	-65m		4000m	
Cooling Method	Air Cooling			

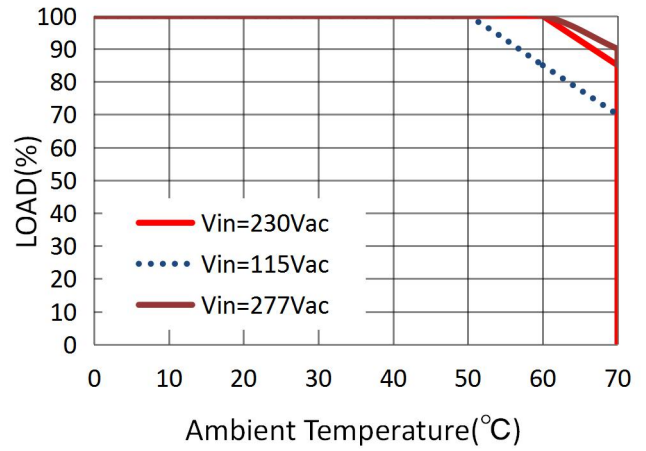
Safety and EMI/EMS Standards

Certification		Standard	Status	Remarks
UL/CUL		UL8750	√	
TUV		EN 61347-2-13:2014 EN 61347-1:2008+A1:2001+A2:2013 EN62493:2015	√	
SAA		AS/NZS61347.2.13	√	
CCC		GB19510.14-2009	√	
CE		EN 61347-2-13:2014 EN 61347-1:2008+A1:2001+A2:2013	√	
Item		Standard	Remarks	
Insulation strength	Input-output	3200Vac/5mA Max/60s	Strengthen insulation, no breakdown and arcing	
	Primary-Earth	1600Vac/5mA Max/60s	Strengthen insulation, no breakdown and arcing	
	Sec.- Earth	1000Vac/5mA Max/60s	Functional insulation, no breakdown arcing	
Insulation resistance	Input-output	≥10MΩ	Testing Voltage : 500Vdc	
Ground resistor		≤0.1Ω	25A/1min	
Leakage current		≤0.75mA	277Vac	
Item	Criterion		Remarks	
Conduction Emission	EN55015:2013+A1:2015			
Radiation Emission	EN55015:2013+A1:2015			
Harmonic Current Emissions	ICE/EN 61000-3-2		Class C	
Surge	ICE/EN 61000-4-5		Difference mode 4KV , Common mode 6KV	

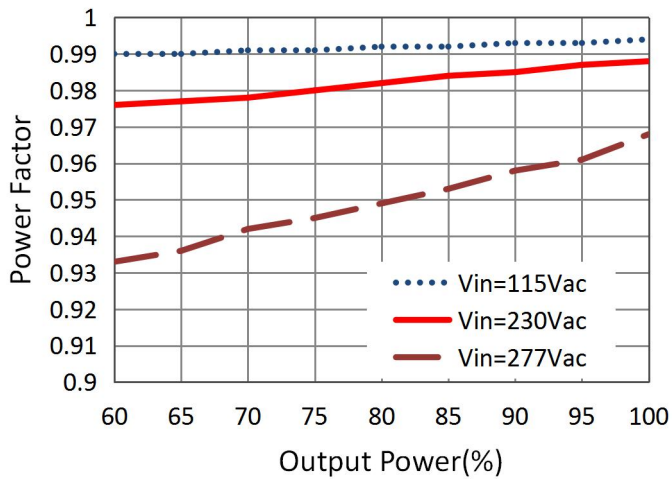
Input Power VS Input Voltage



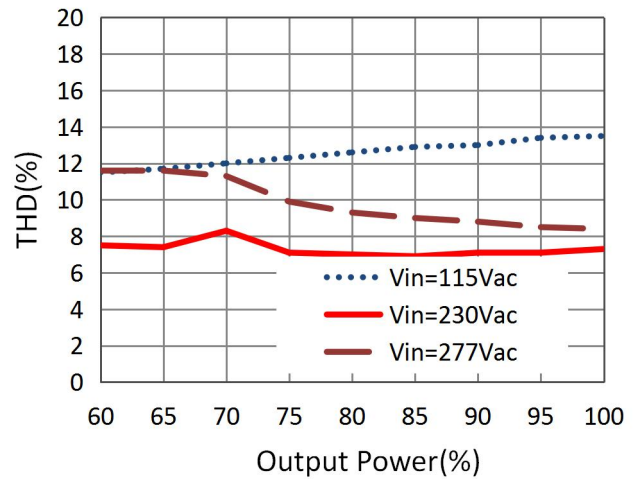
O/P Power VS Ambient Temperature



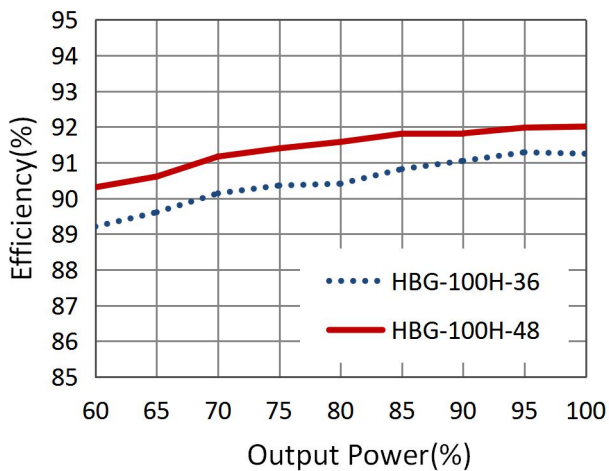
Power Factor VS Output Power



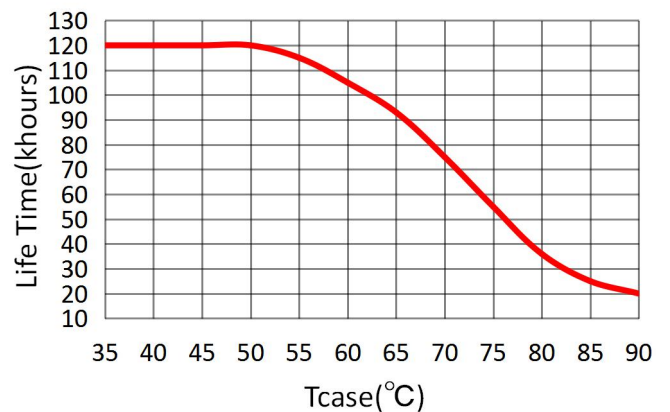
THD VS Output Power



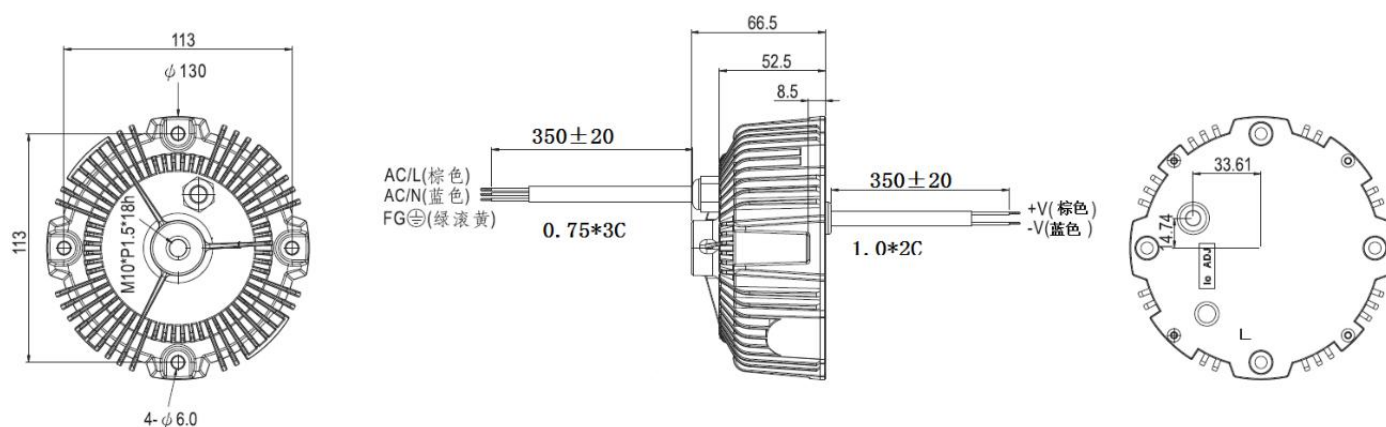
Efficiency VS Output Power



Lifespan VS Case Temperature



Mechanical Characteristics (Unit: mm)



NOTE :

Input Wire	UL model : UL #18AWG 3*0.824mm ² , GREEN: PE , BLACK: L , WHITE: N Euro model : VDE 3*0.75mm ² , YELLOW/GREEN: PE , BROWN: L , BLUE: N
Output Wire	UL model : UL#18AWG 2*0.824mm ² ,RED: V+ , BLACK: V- Euro model : VDE 2*0.75mm ² ,BROWN: V+ , BLUE: V-

■ Installation Tips

Highly recommended to seal the adjustable hole with silicon glue (#704 preferred) after adjusting the driver's output current. Torsion with proper strength to avoid permanent damage to the potentiometer inside

■ Package, Transportation & Storage

1. Package

- a. Outside carton dimension: L×W×H = 49cm×46cm×15cm;
- b. 12 PCS/Carton;
- c. Net weight/PC : 13.4kg ; Gross weight/Carton : 14.8kg
- d. The packing box shall contain the product name, model number, manufacturer's mark, date of manufacture, etc. Each shipment is accompanied by an inspection report.

2. Transportation

Packaging is designed suitable for transportation by trucks, vessels and flights. The products should be shielded from direct sunshine, loaded/unloaded with caution.

3. Storage

The product storage meets the standard of the GB 3873 - 83.

Products should be rechecked if stock for over 1 year before installation.