



AC input with fixed cable



AC input with connector

Applications

· LED bay lighting

LED stage lighting
LED spot lighting

Explosion-proof lighting

• Type HL LED driver for class I division 2.

Features

- Full power output at 70~100% constant power mode operation.
- \cdot Wide input range 90 \sim 305VAC with active PFC function.
- Patented metal housing design with IP67 (Patent NO:CN 201220314551)
- Function options: output current adjustable;
 3 in 1 dimming (dim-to-off and Isolation design)
- Typical lifetime>50000 hours and 5 years warranty.
- · AC input cable with connector for flexible application.

Description

XBG-100 series is a 100W AC/DC LED driver featuring the constant power mode. XBG-100 operates from 90~305VAC and offers with different rated current ranging between 1750mA and 2780mA. Thanks to the high efficiency up to 92%, with the fanless design, the entire series is able to operate for $-40^{\circ}C + 85^{\circ}C$ case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XBG-100 series comply with the latest version of IEC61347/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both users and luminaire system during installation.



Туре	IP Level	Function	Note
A	IP67	constant power adjustable via built-in potentiometer	In Stock
AB	IP67	constant power adjustable via built-in potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock



SPECIFICATION

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MODEL		XBG-100- 🗌 - 🗌				
	DEFAULT CURRENT	2100mA				
	RATED POWER	100W				
	CONSTANT CURRENT REGION	27~56V				
	FULL POWER CURRENT RANGE					
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)	/				
	CURRENT ADJ. RANGE	875~2780mA				
	CURRENT RIPPLE	3.0% max. @rated current				
	CURRENT TOLERANCE	±5%				
	SET UP TIME Note.4					
		90 ~ 305VAC				
	VOLTAGE RANGE Note.2	90 ~ 305 VAC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≧0.97 / 115VAC, PF≧0.95 / 230VAC, PF≧0.92 / 277VAC at full load				
		(Please refer to "Power Factor Characteristic" section)				
	TOTAL HADMONIC DISTORTION	THD<10% (@ load \geq 50% at 115VAC/230VAC ,@load \geq 75% at 277VAC)				
INPUT	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC	DISTORTION (THD)" section			
	EFFICIENCY (Typ.)	92%				
		1.1A/115VAC 0.5A/230VAC 0.42A/277VAC				
	AC CURRENT (Typ.)					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=400µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units(circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY	Standby power consumption<0.5W for AB-Type				
	POWER CONSUMPTION					
		105-150%				
	OVER POWER Hiccup mode, recovers automatically after fault condition is removed					
	SHORT CIRCUIT			condition is removed		
	SHORT CIRCOIT	Constant current limiting or Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION	OVER VOLTAGE	61~78V				
		Shut down output voltage, re-power on after fault condition is removed to recover				
	OVER TEMPERATURE	Shut down output voltage, re-power on after fault condition is removed to recover				
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+85°C				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
ENVIRONMENT		· · ·				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
		UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384;				
	SAFETY STANDARDS	GB19510.1,GB19510.14; IP67 approved				
	WITHSTAND VOLTAGE	, , , , ,				
	ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-PE:2KVAC O/P-PE:1.5KVAC I/P-O/P. I/P-PE. O/P-PE:100M Ohms / 500VDC / 25°C/ 70% RH				
	ISOLATION RESISTANCE					
		Parameter	Standard	Test Level/Note		
		Conducted	EN55015(CISPR15)			
	EMC EMISSION	Radiated	EN55015(CISPR15)			
		Harmonic Current	EN61000-3-2	Class C @load≥50%		
		Voltage Flicker	EN61000-3-3			
SAFETY &						
		EN61547				
EMC		Parameter	Standard	Test Level/Note		
		ESD	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	EN61000-4-3	Level 3		
	EMC IMMUNITY	EFT/Burst	EN61000-4-4	Level 3		
		Surge	EN61000-4-5	4KV/Line-Line 6KV/Line-Earth		
		Conducted				
			EN61000-4-6	Level 3		
		Magnetic Field	EN61000-4-8	Level 4		
		Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods		
	MTBF	>90% Interruptions 200 periods				
OTHERS	LIFETIME Note.5	50000 hrs min.				
	DIMENSION	φ 130mm *56mm(D*H)				
	PACKING	0.8Kg; 16pcs/ 14.8Kg/1.57CUFT				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), is about 75°C or less. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED drive can only be used behind a switch without permanently connected to the mains. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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) 					
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 For any application note and IP water proof function insta https://www.meanwell.com/Upload/PDF/LED_EN.pdf













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Caution

- Please inspect the appearance of the driver if the package is damaged. There should not be any cracks.
- $\cdot\,$ Please do not drop or bump the driver.
- $\cdot\,$ All screws including the suspension screw should be paired with a spring washer and locked tight.
- The entire luminaire, including the driver, should be limited to 10Kg or less.
- $\cdot\,$ The luminaire should be cautiously protected from damage due to shock throughout packaging and transportation.
- Please thoroughly follow the preceding cautionary notes to prevent the luminaire from falling, leading to injuries.







