











Features

- Constant Power mode output
- · Metal housing design with functional Ground
- Built-in active PFC function
- Class 2 power unit
- No load / Standby power consumption < 0.5W
- IP67 rating for indoor or outdoor installations
- Function options: output adjustable via potentiometer 3 in 1 dimming function (Dim to off and Isolation design)
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- LED street lighting
- · LED architectural lighting
- LED bay lighting
- · LED floodlighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

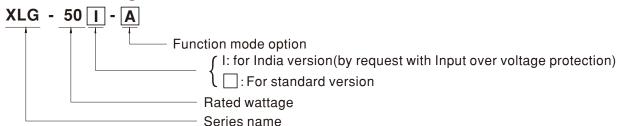
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

XLG-50 series is a 50W AC/DC LED driver featuring the constant power mode output. XLG-50 operates from 90~305VAC. Thanks to the high efficiency up to 90%. The entire series is able to operate between -40 °C ~90 °C wide case temperature range with air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. XLG-50 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.XLG-50 series comply with the latest version of IEC61347/GB19510.1 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 user and luminaire system during installation.

Model Encoding



Туре	IP Level	Function	Note
Α	IP67	Io adjustable through built in potentiometer.	In Stock
AB	IP67	Io adjustable through built in potentiometer 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock

SPECIFICATION

MODEL		XLG-50					
	RATED CURRENT (Default)	1A					
	CONSTANT CURRENT REGION Note.2						
OUTPUT		100VAC ~ 305VAC					
001101	RATED POWER	50W					
	CURRENT RIPPLE	5.0% max. @rated current					
	OPEN CIRCUIT VOLTAGE (max.)	57V					
	CURRENT ADJ. RANGE	0.53 ~ 2.1A					
	SETUP, RISE TIME Note.3	500ms, 100ms/115VAC, 230VAC					
		90 ~ 305VAC 127 ~ 431VDC					
	VOLTAGE RANGE Note.4	(Please refer to "STATIC CHARACTERISTIC" sec	ction)				
	FREQUENCY RANGE	47 ~ 63Hz					
		PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load					
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
	TOTAL HARMONIC DISTORTION	THD< 10%(@load≥50%/115VC,230VAC; @load≥75%/277VAC) (Please refer to *TOTAL HARMONIC DISTORTION(THD)" section)					
INPUT	EFFICIENCY (Typ.) Note.10	90%					
01	AC CURRENT	0.57A / 115VAC					
l 1	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=350µs measured at 50% lpeak) at 230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	5 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD / STANDBY POWER CONSUMPTION	No load power consumption <0.5W for A, <0.75W for I series Standby power consumption <0.5W for AB-Type(Dimming OFF)					
	OVER POWER						
	SHORT CIRCUIT	Constant current limiting, recovers automatically	•				
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION		320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed					
	INPUT OVER VOLTAGE Note.8	Can survive input voltage stress of 440Vac for 48 hours					
	ORKING TEMP. Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20~95%					
	STORAGE TEMP.	-40~+80°C					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	SAFETY STANDARDS Note.8	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC AS/NZS IEC BS EN/EN61347-1, AS/NZS BS EN/EN61347-2-13 independent, BS EN/EN62384; IP67; GB19510.1, GB19510.14, EAC TP TC 004,J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13, IS15885(Part2/Sec13)(for XLG-50I type only); NOM-058-SCFI-2017 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG	FG:2.0KVAC O/P-FG:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
		Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743				
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743				
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3				
-		BS EN/EN61547	20 211/2110 1000 0 0				
		Parameter	Standard	Test Level/Note			
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000-4-3	Level 3			
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-4	Level 3			
	Emo immorti i	Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth			
		Conducted	BS EN/EN61000-4-6	Level 3			
		Magnetic Field	BS EN/EN61000-4-8	Level 4			
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
	MTBF	3931.6 K hrs min. Telcordia SR-332 (Bellcore)	394.6Khrs min. MIL-HDBK-217F (25°€)	55 % interruptions 250 periods			
l	DIMENSION	105*63*30mm (L*W*H)	(- 3)				
OTHERS		, ,	0.41Kg;24pcs/ 10.5Kg/0.81CUFT for A-type				
OTHERS	PACKING	0.41Kg;24pcs/ 10.5Kg/0.81CUFT for A-type 0.4	2Kg;24pcs/ 11Kg/0.81CUF1 for AB-type				

- 2. Please refer to "DRIVING METHODS OF LED MODULE".
- 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.

 4. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 5. 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- (as available on https://www.meantweii.com//opioao/r/Dr/EMI_statement_en.pdr)

 6. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less.

 7. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com

 8. Input over voltage only for XLG-50 I series and I series without UL/CSA certificate.

 9. 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).

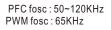
- 10. Only for XLG-50-A
- 10. Only for XLG-30-A
 11. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.
 12. For any application note and IP water proof function installation caution, please refer our user manual before using.
 https://www.meanwell.com/Upload/PDF/LED_EN.pdf

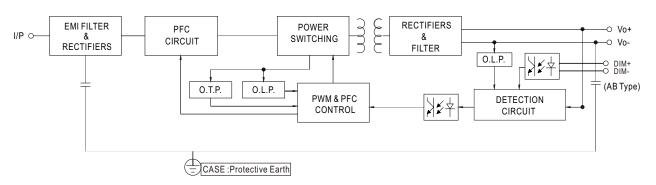
 13. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 14. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.

- 15. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.
- 16. This series need to consider build in using to comply with Type HL application.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

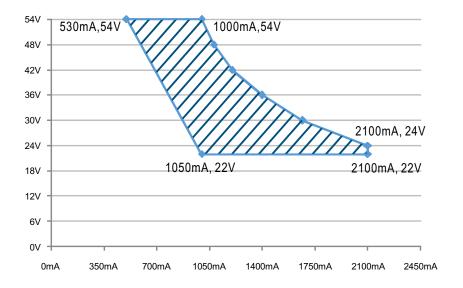


■ Block Diagram





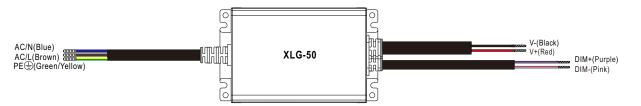
■ DRIVING METHODS OF LED MODULE



Recommend Performance Region

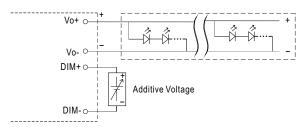


■ DIMMING OPERATION



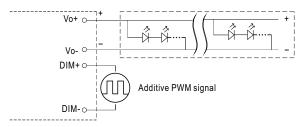
※ 3 in 1 dimming function (for AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)



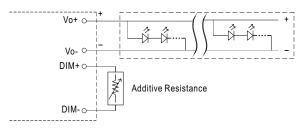
"DO NOT connect "DIM- to Vo-"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

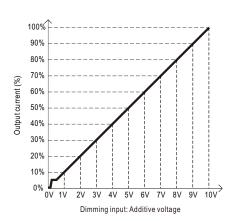


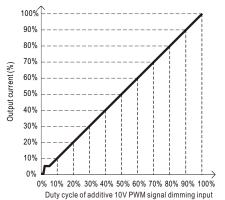
"DO NOT connect "DIM- to Vo-"

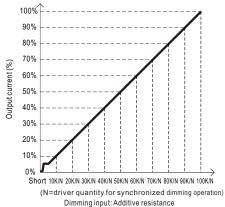
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"

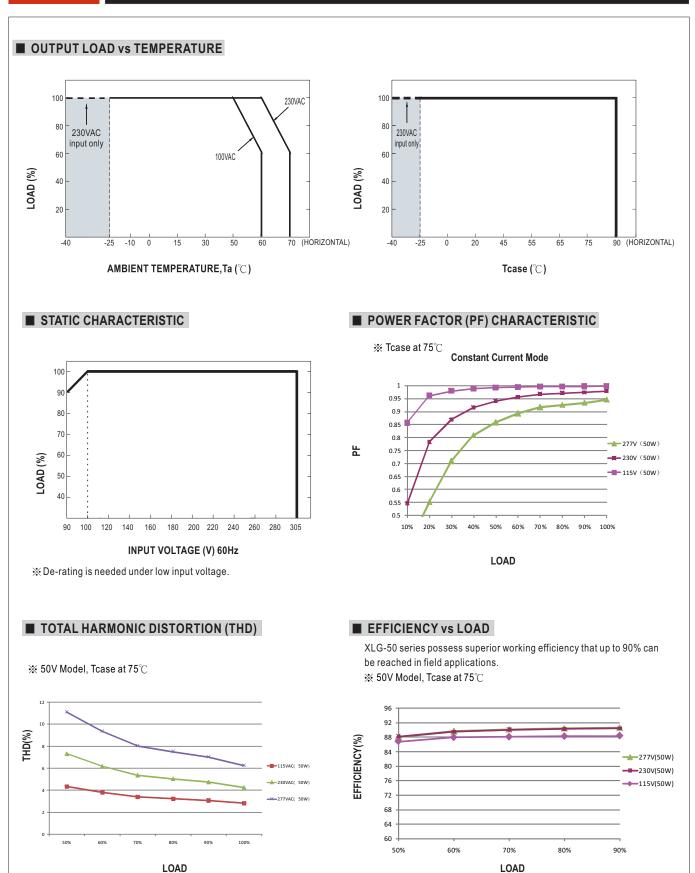






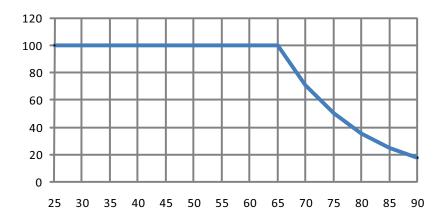
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% Lout < 8%.

2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



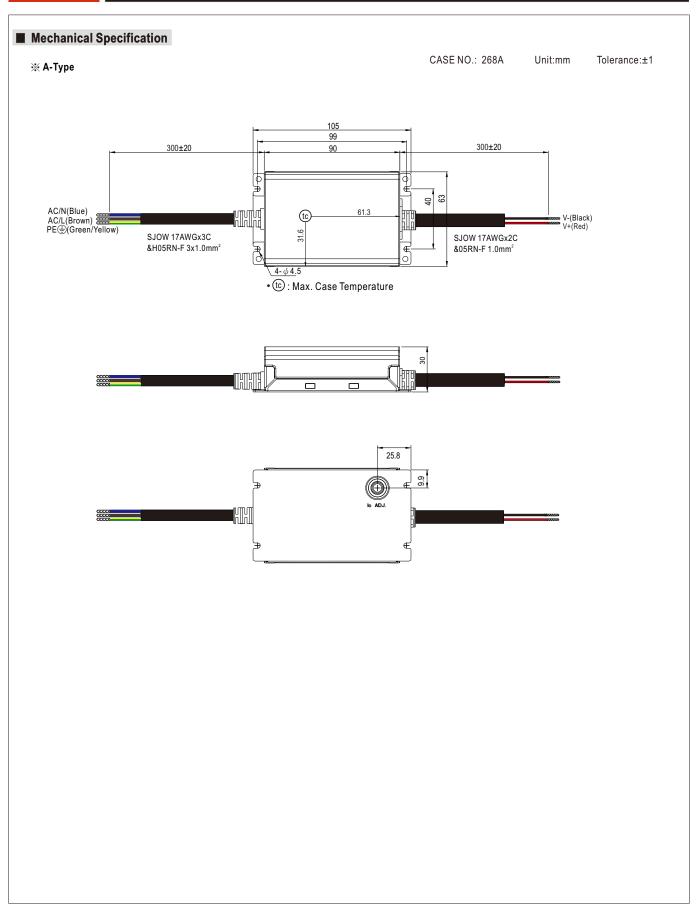
■ LIFE TIME

TIME(Kh



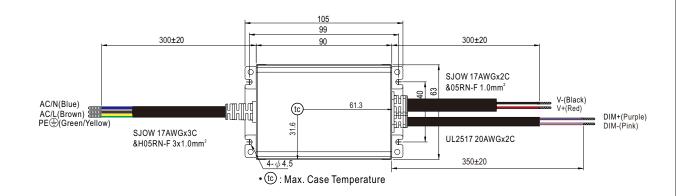
Tcase ($^{\circ}$ C)

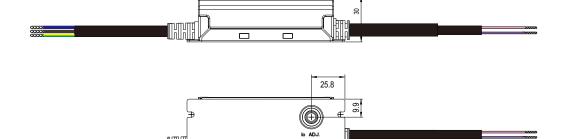




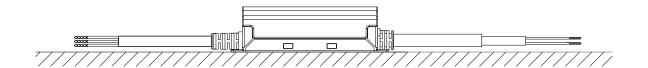


※ AB-Type





■ Recommend Mounting Direction



■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html



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