



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 (dim-to-off)
- Typical lifetime>50000 hours
- 5 years warranty

Description

XLG-50 series is a 50W AC/DC LED driver featuring the constant power mode output. XLG-50 operates from 100~305VAC. 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.

Model Encoding



Туре	IP Level	Function	Note
A	IP67	lo 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

Applications

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



SPECIFICATION

MODEL		XLG-50		
MODEL				
	RATED CURRENT	1A		
OUTPUT	CONSTANT CURRENT REGION Note.2			
	RATED POWER Note.5	100VAC ~ 305VAC		
		50W		
	CURRENT RIPPLE	5.0% max. @rated current		
	OPEN CIRCUIT VOLTAGE (max.)			
	CURRENT ADJ. RANGE	0.53 ~ 2.1A		
	SETUP, RISE TIME Note.3	500ms, 100ms/115VAC, 230VAC		
-	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE	47~63Hz		
	FREQUENCI RANGE	$PF \ge 0.97/115VAC, PF \ge 0.95/230VAC, PF \ge 0.92/277VAC@full load$		
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
		THD<10%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)		
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)		
INPUT	EFFICIENCY (Typ.) Note.10			
	AC CURRENT	0.57A / 115VAC 0.29A / 230VAC 0.24A/277VAC		
- F	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 power consumption <0.5W for A, <0.75W for I series		
	NO LOAD / STANDBY POWER CONSUMPTION	Standby power consumption <0.5W for AB		
PROTECTION	OVER POWER	110-150% Over Power Protection, recovers automatically after fault condition is removed Constant current limiting, recovers automatically after fault condition is removed		
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER TEMPERATURE	320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage)		
	INPUT OVER VOLTAGE Note.8	can survive input voltage stress of 440Vac for 48 hours		
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+90°C		
	WORKING HUMIDITY	20~95%		
ENVIRONMENT	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	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC AS/NZS IEC EN61347-1, AS/NZS EN61347-2-13 independent, EN62384; IP65 or IP67; GB19510.1, GB19510.14 approved		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC		
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH		
LINO	EMC EMISSION	Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 50%) ; EN61000-3-3; GB17743, GB17625.1		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)		
	MTBF	1252.69K hrs min. Telcordia SR-332 (Bellcore) 394.57 Khrs min. MIL-HDBK-217F (25° C)		
OTHERS	DIMENSION	105*63*30mm (L*W*H)		
	PACKING	0.41Kg;24pcs/ 10.5Kg/0.68CUFT for A-type 0.42Kg;24pcs/ 11Kg/0.68CUFT for AB-type		
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". 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. 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. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (b) point (or TMP, per DLC), is about 70°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com Only for XLG-50 I series 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), 10.0nly for XLG-50-A In-re 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 			



















Tcase (°C)







🔆 АВ-Туре

