





■ Features

- Wide input range 100~305V AC(Class I)
- Full power output at 70~100% Constant power mode operation
- Metal case with IP67, suitable for outdoor application
- Surge protection with 6KV/4KV (10KV/6KV optional)
- 3 in 1 dimming function (Dim to off and Isolation design)
- India (EESL) version, can survive input voltage stress of 440Vac for 48 hours
- Protection functions: OVP/SCP/OCP/OTP
- Life time >50,000 hrs. and 5 years warranty

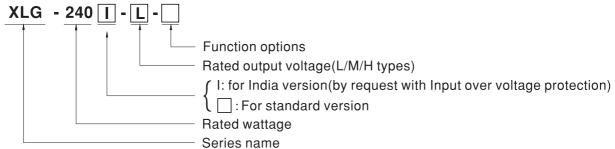
Applications

- Skyscraper lighting
- · Street lighting
- · Floodlight Lighting
- Stage lighting
- Fishing lighting
- · Horticulture lighting
- · Bay lighting
- Type HL for use in class I, Division 2

Description

XLG-240 series is a 240W LED AC/DC driver featuring the constant power mode. XLG-240 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 6.66A. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for $-40\,^{\circ}\mathrm{C} \sim +90\,^{\circ}\mathrm{C}$ 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. XLG-240 is designed 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 user and luminaire system safety durng installation.

■ Model Encoding



Type	Function	Note
Blank	Io and Vo fixed.(For harsh environment)	By request
Α	lo adjustable via built-in potentiometer	In Stock
AB	Io adjustable via built-in potentiometer + 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock

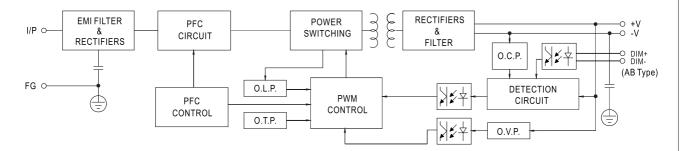


MODEL		XLG-240L	XLG-240 -M-	XLG-240 -H-		
	DATED GUDDENT					
OUTPUT	RATED CURRENT	700mA	1400mA	4900mA		
	RATED POWER CONSTANT CURRENT REGION Note.2	239.4W	239.4W 90 ~171V	239.6W 27 ~ 56V		
	FULL POWER CURRENT RANGE		1400~2100mA	4280~6660mA		
	OPEN CIRCUIT VOLTAGE (max.)		186V	60V		
	OPEN CIRCUIT VOLTAGE (IIIax.)	Adjustable for A/AB-Type only (via the b		000		
	CURRENT ADJ. RANGE	350~1050mA	700~2100mA	2400~6660mA		
	OUDDENT DIDDLE			2400~0000IIIA		
	CURRENT RIPPLE	4.0%(@ Load≥50% rated voltage)				
	CURRENT TOLERANCE	±4%				
	SET UP TIME Note.6	500ms/230VAC, 1200ms/115VAC				
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC				
		(Please refer to "STATIC CHARACTERISTIC" and "DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load				
	(-7)	(Please refer to "Power Factor Characteristic" section)				
	TOTAL HARMONIC DISTORTION	THD< 10% (@ load≥50% at 115VAC/230VAC ,@load≥75% at 277VAC)				
		Please refer to "TOTAL HARMONIC D	1			
INPUT	EFFICIENCY (Typ.)	93% 92.5% 91%				
	AC CURRENT (Typ.)	2.7A / 115VAC 1.3A / 230VAC 1.1A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 85A(twidth=500µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A					
	CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units(circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY	WHO IN LITTLE				
	POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)				
		Hiccup mode or constant current limiting, recovers automatically after fault condition is removed				
	SHORT CIRCUIT	'	1			
	OVER VOLTAGE	380 ~ 440V	190~ 240V	61 ~ 78V		
PROTECTION		Shut down output voltage, re-power on	•			
	INPUT OVER VOLTAGE Note.7	· · · · · · · · · · · · · · · · · · ·	input exceeds protection voltage, recovers auto	matically after fault condition is removed)		
	OVED TEMPERATURE	can survive input voltage stress of 440Vac for 48 hours				
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down				
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C				
NVIDONMENT	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; EAC TP TC 004;IP67 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC 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		
	EMC EMISSION	Conducted	EN55015(CISPR15),GB/T17743			
		Radiated	EN55015(CISPR15),GB/T17743			
		Harmonic Current	EN61000-3-2 , GB/T17625.1	Class C @load≥50%		
SAFETY &		Voltage Flicker	EN61000-3-2, GB/11/023.1			
EMC (Note 8)		EN61547	EN01000-3-3			
			Standard	Test Level / Note		
		Parameter	Standard EN61000 4 2			
		ESD	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	EN61000-4-3	Level 2		
	EMC IMMUNITY	EFT / Burst	EN61000-4-4	Level 3		
		Surge	EN61000-4-5	4KV/Line-Line 6KV/Line-Earth(6K/10K option)		
		Conducted	EN61000-4-6	Level 2		
		Magnetic Field	EN61000-4-8	Level 4		
		Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 period		
	итог			>95% interruptions 250 periods		
OTHERS	MTBF	830.77K hrs min. Telcordia SR-332(Bellcore); 219.75K hrs min. MIL-HD	BK-217F (25℃)		
	DIMENSION	219*63*35.5mm (L*W*H)				
	PACKING					
NOTE	PACKING 1. All parameters NOT specially r 2. Please refer to "DRIVING MET	1Kg;16pcs / 16Kg / 0.77CUFT Iy mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.				
	4. Tolerance: includes set up tole 5. De-rating may be needed und in short time, it may causes 6. Length of set up time is meas 7. Only for XLG-240 I series, and 8. The driver is considered as a complete installation, the final 9. This series meets the typical lift 10. Please refer to the warranty s	erance, line regulation and load regulation. er low input voltages. Please refer to "STA" PWM driver IC into protection status. ured at first cold start. Turning ON/OFF the lseries without UL/CSA certificate. component that will be operated in combina aquipment manufacturers must re-qualify El e expectancy of >50,000 hours of operation tatement on MEAN WELL's website at http.	TIC CHARACTERISTIC" sections for details.If driver may lead to increase of the set up time tion with final equipment. Since EMC performa MC Directive on the complete installation again when Tcase, particularly no point (or TMP, p	continually operate with AC on/off nce will be affected by the or DLC), is about 75°C or less.		



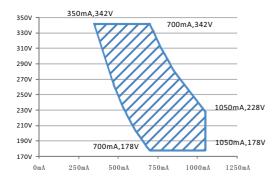
■ BLOCK DIAGRAM

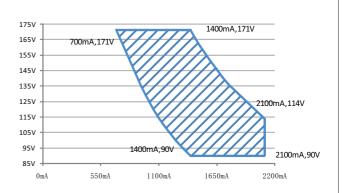
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

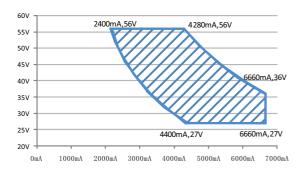
I-V Operating Area





Recommend Performance Region

Recommend Performance Region



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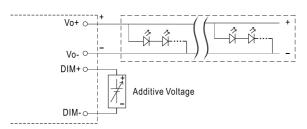


■ DIMMING OPERATION

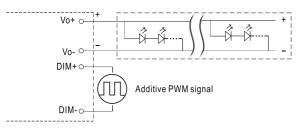


\divideontimes 3 in 1 dimming function (for AB-Type)

- 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: 100 μ A (typ.)

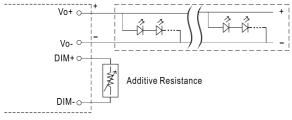


"DO NOT connect "DIM- to Vo-"

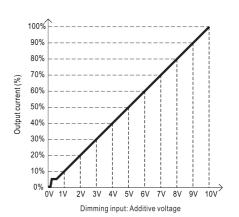


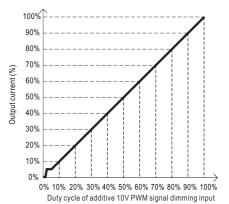
"DO NOT connect "DIM- to Vo-"

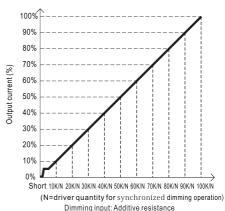
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





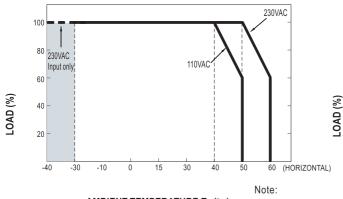


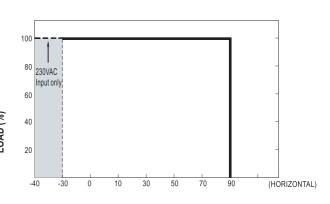
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.

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.



■ OUTPUT LOAD vs TEMPERATURE



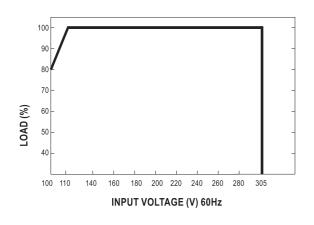


Tcase (°C)

AMBIENT TEMPERATURE,Ta (°C)

Note: 1. If XLG-240 operates in Constant Power mode with the rated current the maximum workable Ta is 50° C (Typ. 230VAC) or 40° C (Typ. 110VAC) 2.It may has a soft-start status when operation at -30°C full load and 110VAC input condition.

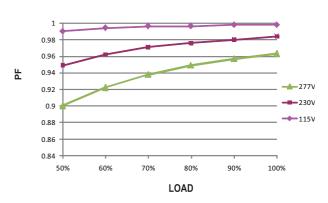
■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

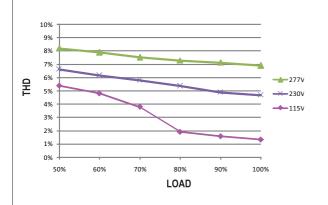
★ Tcase at 75°C

Constant Current Mode



■ TOTAL HARMONIC DISTORTION (THD)

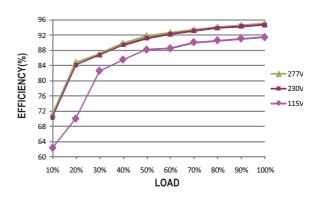
※ XLG-240-L Model, Tcase at 75°C



■ EFFICIENCY vs LOAD

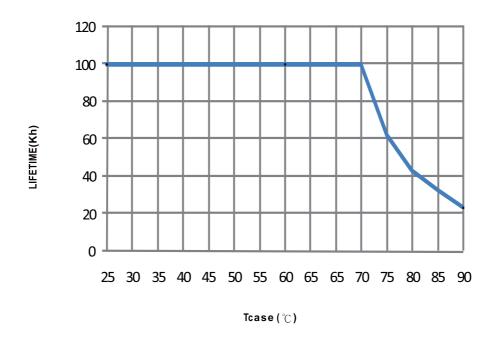
XLG-240 series possess superior working efficiency that up to 93% can be reached in field applications.

※ XLG-240-L Model, Tcase at 75°C

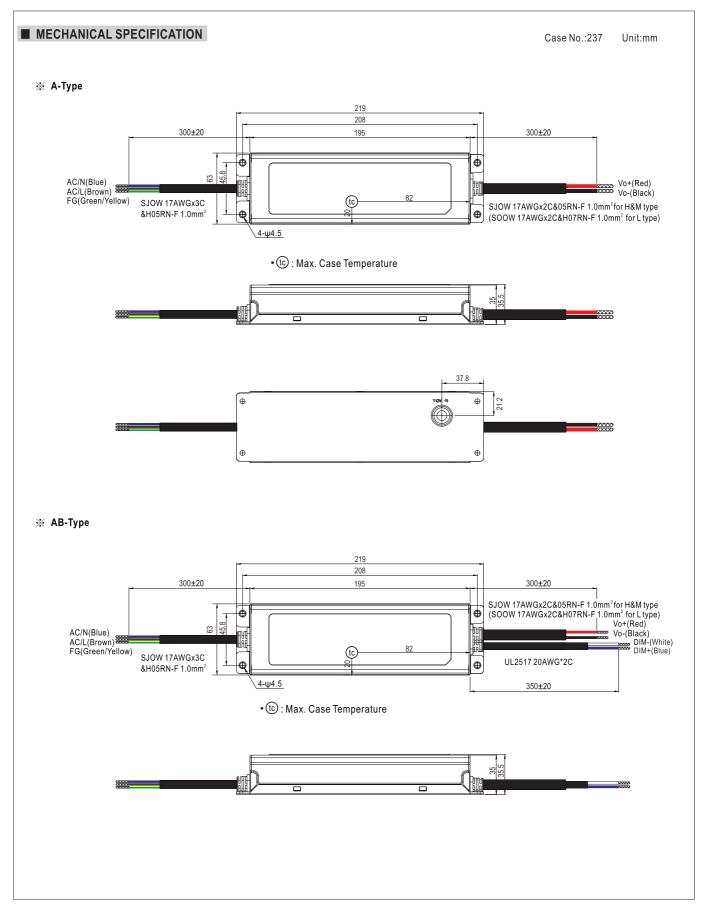




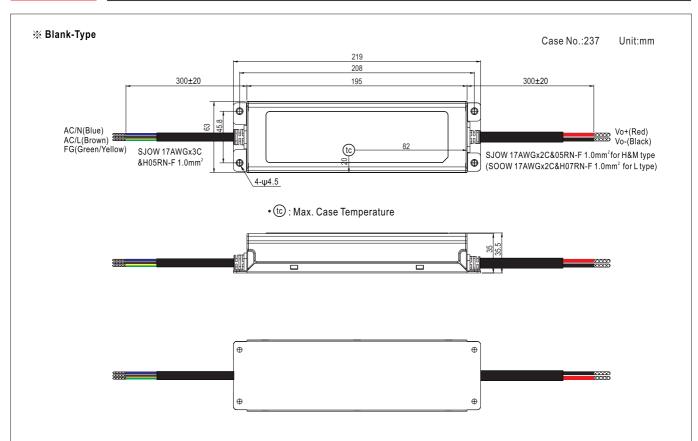
■ LIFE TIME











■ INSTALLATION MANUAL

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