

Наличие и актуальные цены на

# XLG-240I-L-AB

https://www.mean-well.ru/store/XLG-240I-L-AB/

































### 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
- LED strip lighting (ABV type)
- Agricultural lighting (ABV type)
- Type HL for use in class I, Division 2

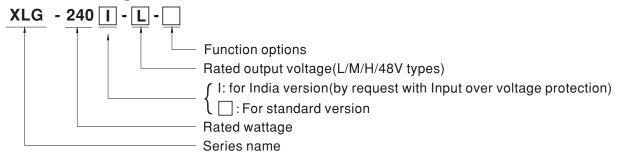
## GTIN CODE

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

# Description

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

# ■ Model Encoding



Туре	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
ABV (48V only)	Vo adjustable via built-in potentiometer + 3 in 1 dimming function (Flicker free C.V. Dimming)	In Stock

Note: 1. India version needs MOQ for production, please consult MEANWELL for detail.

2. 48-V/48-BV types are available by modification version, please consult MEANWELL for detail.



#### **SPECIFICATION**

		XLG-240L	XLG-240 -M-	XLG-240 -H-			
	RATED CURRENT (Default)	700mA	1400mA	4900mA			
OUTPUT	RATED POWER	239.4W	239.4W	239.6W			
	CONSTANT CURRENT REGION Note.2	178~ 342V	90 ~171V	27 ~ 56V			
	FULL POWER CURRENT RANGE	700~1050mA	1400~2100mA	4280~6660mA			
	OPEN CIRCUIT VOLTAGE (max.)	370V 186V 60V					
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer)					
	CONNENT ADD. NAMOE	350~1050mA	2400~6660mA				
	CURRENT RIPPLE	5.0%(@ Load≥50% rated voltage)					
	CURRENT TOLERANCE	±4%					
	SET UP TIME Note.6	500ms/230VAC, 1200ms/115VAC					
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC					
	VOLTAGE RANGE Note.5	(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, I	PF≥0.92 / 277VAC at full load				
	FOWER FACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)					
	TOTAL HARMONIC DISTORTION	THD<10% (@ load≥50% at 115VAC/230VAC,@load≥75% at 277VAC)					
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
NPUT	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						
	POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)					
	SHORT CIRCUIT	Hiccup mode or constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	380 ~ 450V	190~ 240V	61 ~ 85V			
		Shut down output voltage, re-power on to		1 2 2 2			
ROTECTION		320 ~ 390VAC (Shut down output when the input exceeds protection voltage, recovers automatically after fault condition is removed)					
	INPUT OVER VOLTAGE Note.7	Can survive input voltage stress of 440Vac for 48 hours					
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover					
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C					
		20 ~ 95% RH non-condensing					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	-40 ~ +80°C, 10 ~ 95% RH non-condensing				
IVIRONMENT	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-	ng				
IVIRONMENT		-	g				
IVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensir					
NVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	-40 ~ +80°C, 10 ~ 95% RH non-condensir ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.13	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61				
IVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	-40 ~ +80°C, 10 ~ 95% RH non-condensin ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61 ye); IP67 approved				
IVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	-40 ~ +80°C, 10 ~ 95% RH non-condensin ±0.03%°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.13 GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank typ	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 ye); IP67 approved )/P-FG:1.5KVAC				
IVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	-40 ~ +80°C, 10 ~ 95% RH non-condensin ±0.03%°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1 GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank types)	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 ye); IP67 approved )/P-FG:1.5KVAC				
IVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	-40 ~ +80°C, 10 ~ 95% RH non-condensin ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1; GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank type I/P-O/P:3.75KVAC I/P-FG:2KVAC (1/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 9); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH	347-2-13,IS15885(Part2/Sec13);			
IVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	-40 ~ +80°C, 10 ~ 95% RH non-condensin ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank type I/P-O/P:3.75KVAC I/P-FG:2KVAC O I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5	72min. each along X, Y, Z axes 8-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 be); IP67 approved D/P-FG:1.5KVAC 00VDC / 25°C / 70% RH Standard	347-2-13, \$15885(Part2/Sec.13);    Test Level / Note			
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +80°C, 10 ~ 95% RH non-condensin ±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank type I/P-O/P:3.75KVAC I/P-FG:2KVAC O I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Parameter Conducted	72min. each along X, Y, Z axes 8-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 be); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743	347-2-13, S15885(Part2/Sec13);    Test Level / Note			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +80°C, 10 ~ 95% RH non-condensin ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for UL8750(type"HL"), CSA C22.2 No. 250.13 GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank type) I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Parameter Conducted Radiated	72min. each along X, Y, Z axes 8-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 be); IP67 approved D/P-FG:1.5KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743	Test Level / Note			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +80°C, 10 ~ 95% RH non-condensin  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.13 GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank type)  I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current	72min. each along X, Y, Z axes 8-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61  be); IP67 approved  D/P-FG:1.5KVAC  00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1	Test Level / Note			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +80°C, 10 ~ 95% RH non-condensin  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-GP:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker	72min. each along X, Y, Z axes 8-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61  be); IP67 approved  D/P-FG:1.5KVAC  00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1	Test Level / Note			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +80°C, 10 ~ 95% RH non-condensin  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-GP:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 be); IP67 approved D/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3	Test Level / Note     Class C @load≥50%			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +80°C, 10 ~ 95% RH non-condensin  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC (I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 be); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3	Test Level / Note   Class C @load≥50%   Test Level / Note   Class C @load≥50%   Test Level / Note   Tes			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	-40 ~ +80°C, 10 ~ 95% RH non-condensin  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-GP:3.75KVAC I/P-G:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 be); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3	Test Level / Note   Class C @load≥50%   Test Level / Note   Class C @load≥50%   Test Level / Note   Level 3, 8KV air; Level 2, 4KV contact			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	-40 ~ +80°C, 10 ~ 95% RH non-condensin  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC (I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 be); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3  Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Test Level / Note   Class C @load≥50%   Test Level / Note   Class C @load≥50%   Test Level / Note   Level 3, 8KV air ; Level 2, 4KV contact   Level 2			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	-40 ~ +80°C, 10 ~ 95% RH non-condensir  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC (I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT / Burst	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 ye); IP67 approved  D/P-FG:1.5KVAC  00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4	Test Level / Note     Class C @load≥50%       Test Level / Note   Level 3, 8KV air; Level 2, 4KV contact   Level 2   Level 3			
AFETY & MC Note 8)	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	-40 ~ +80°C, 10 ~ 95% RH non-condensir  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC (I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT / Burst  Surge	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 ye); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5	Test Level / Note  Class C @load≥50%   Test Level / Note  Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 3  4KV/Line-Line 6KV/Line-Earth(6K/10K option)			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	-40 ~ +80°C, 10 ~ 95% RH non-condensir  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.13 GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank type)  I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-FG:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-FG:3.75KVAC I/P	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 we); IP67 approved D/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2 , GB17625.1 BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8	Test Level / Note Class C @load≥50%  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	-40 ~ +80°C, 10 ~ 95% RH non-condensir  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.1: GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty,  I/P-O/P:3.75KVAC I/P-FG:2KVAC (I/P-G/P, I/P-FG, O/P-FG:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT / Burst  Surge  Conducted	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 ye); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5  BS EN/EN61000-4-6	Test Level / Note Class C @load≥50%  Test Level / Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 2 Level 4			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	-40 ~ +80°C, 10 ~ 95% RH non-condensir  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.13 GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank type)  I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-FG:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-GP:3.75KVAC I/P-FG:3.75KVAC I/P	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 ye); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	Test Level / Note   Class C @load≥50%   Test Level / Note  Level 3, 8KV air; Level 2, 4KV contact  Level 2  Level 3  4KV/Line-Line 6KV/Line-Earth(6K/10K option)  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods			
AFETY&	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY	-40 ~ +80°C, 10 ~ 95% RH non-condensin  ±0.03%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for  UL8750(type"HL"), CSA C22.2 No. 250.13 GB19510.1, GB19510.14; EAC TP TC 00 NOM-058-SCFI-2017(except for Blank ty)  I/P-O/P:3.75KVAC I/P-FG:2KVAC (I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT / Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions	72min. each along X, Y, Z axes 3-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 ir 4; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61 ye); IP67 approved 0/P-FG:1.5KVAC 00VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	Test Level / Note   Class C @load≥50%   Test Level / Note  Level 3, 8KV air; Level 2, 4KV contact  Level 2  Level 3  4KV/Line-Line 6KV/Line-Earth(6K/10K option)  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods			

- Nipple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1ur & 47ur parallel capacitor.
   Tolerance: includes set up tolerance, line regulation and load regulation.
   De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. If continually operate with AC on/off in short time, it may causes PWM driver IC into protection status.
   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?
   Only for XLG-240 I series, and I series without UL/CSA certificate.
   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. 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)

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

  10. Please refer to the warranty statement on MEAN WELLs website at http://www.meanwell.com

  11. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.

  12. 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).

  13. H type:RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations.

  M,L type:RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.

  14. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.

  15. Some products may not have the BIS logo, please contact your MEAN WELL sales for more information.

  16. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/ED\_EN.pdf

  17. When the current adjustment is more than 110% of the rated current, it will be enter the Protection state.

  18. It may has an over-shoot status at output current when AC On/Off operate with lower Vf and lower loading conditions.

  20. For A/AB/ABV type need to consider build in using to comply with Type HL application.

- 20. For A/AB/ABV type 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

File Name:XLG-240-SPEC 2024-10-11



# 240W Constant Voltage LED Driver

#### **SPECIFICATION**

MODEL		XLG-240-48-ABV					
	RATED CURRENT	5A					
	RATED POWER(Max.)	240W					
	DC VOLTAGE	48V (adjustable 43.2~52.8V)					
OUTPUT	RIPPLE & NOISE(max.)	250mVp-p					
	VOLTAGE TOLERANCE	±2.0%					
	LINE REGULATION	±0.5%					
	LOAD REGULATION	±0.5%					
	DIMMING TOLERANCE	±4%					
	SET UP TIME Note.9	500ms/230VAC, 1200ms/115VAC					
	VOLTAGE RANGE	110 ~ 305VAC 156VDC ~ 431VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load					
	TOTAL HARMONIC DISTORTION	THD<10% @ load≥50% at 115VAC/230VAC, @Load>75% at 277VAC;					
INPUT	EFFICIENCY (Typ.)	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 POWER CONSUMPTION	Standby power consumption < 0.5W for ABV/BV-Type(Dimming OFF)(for standard version)					
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed					
	0	54 ~ 60V					
	OVER VOLTAGE	Shut down output voltage, re-power on to recovery					
ROTECTION	OVER TEMPERATURE Note.10	Shut down output voltage, re-power on to recover					
		105~135%					
	OVER LOAD	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed					
	WORKING TEMP.	Tcase=-20 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
		Tcase=+90°C					
	MAX. CASE TEMP.	20 ~ 95% RH non-condensing					
NVIRONMENT	WORKING HUMIDITY	· · · · · · · · · · · · · · · · · · ·					
	STORAGE TEMP., HUMIDITY	-20 ~ +80 °C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72mir	n. each along X, Y, Z axes				
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; IS15885(Part2/Sec13)(Note 14), 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 / 500VD	C / 25℃/ 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				
SAFETY &		BS EN/EN61547					
МС		Parameter	Standard	Test Level / Note			
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
	EMC IMMUNITY	Radiated	BS EN/EN61000-4-3	Level 2			
		EFT / Burst	BS EN/EN61000-4-4	Level 3			
		Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth			
		Conducted	BS EN/EN61000-4-6	Level 2			
		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	2496.2K hrs min. Telcordia SR-332(Bellcore	2496.2K hrs min. Telcordia SR-332(Bellcore); 219.8K hrs min. MIL-HDBK-217F (25°ℂ)				
	DIMENIOLONI	219*63*35.5mm (L*W*H)					
OTHERS	DIMENSION	210 00 00:011111 (2 17 11)	1Kg;16pcs / 16Kg / 0.8CUFT				

- 3. 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.

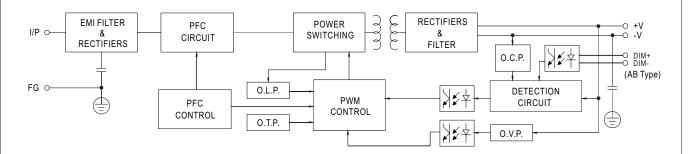
  (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 4. This series meets the typical life expectancy >50,000 hours of operation when Tcase, particularly @ point (or TMP, per DLC), is 70 °C or less.
- 5. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.
- 6. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 7. The ambient temperature derating of  $3.5^{\circ}$ C/1000m with fanless models and of  $5^{\circ}$ C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 8. 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
- 9. Products sourced from the Americas regions may not have the ENEC/CCC/KC logo. Please contact your MEAN WELL sales for more information.
- 10. When the secondary OTP fails, there is also a primary OTP, which is protected by Shut down output voltage, re-power on to recovery.

  11. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 12. Please refer to "DRIVING METHODS OF LED MODULE".
- 13. 48 type:RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations.
- 14. Products sourced from the China regions may not have the BIS logo, please contact your MEAN WELL sales for more information.
- 15. For A/AB/ABV type need to consider build in using to comply with Type HL application.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



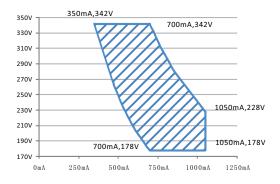
#### ■ BLOCK DIAGRAM

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

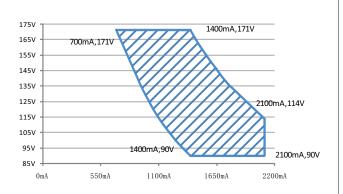


#### ■ DRIVING METHODS OF LED MODULE

¾ I-V Operating Area

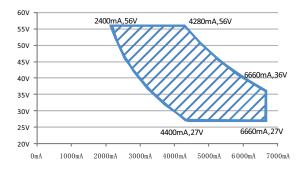


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Recommend Performance Region

Recommend Performance Region



Recommend Performance Region

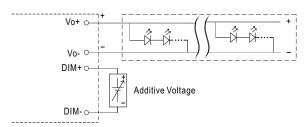


#### **■ DIMMING OPERATION**

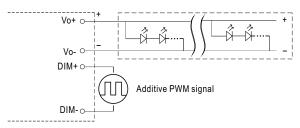


#### ※ 3 in 1 dimming function (for AB-Type)

- 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: 100  $\mu$  A (typ.)

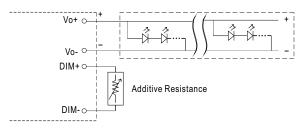


"DO NOT connect "DIM- to Vo-"

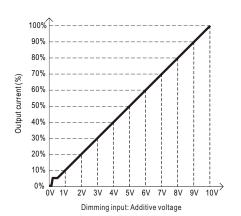


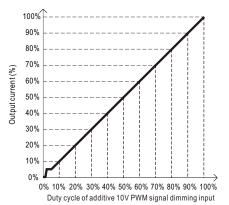
"DO NOT connect "DIM- to Vo-"

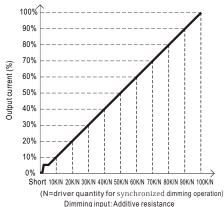
Applying additive resistance:



"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%.

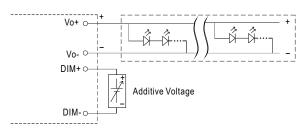
- 2. The output current could drop down to 0% when dimming input is about 0k $\Omega$  or 0Vdc, or 10V PWM signal with 0% duty cycle.
- 3. When PWM frequency >2K HZ ,the lighting will be triggered at 10~15% PWM duty .

#### **■ DIMMING OPERATION**



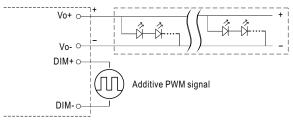
#### **※** 3 in 1 dimming function (for ABV-Type)

- Output constant voltage 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.)
- O Applying additive 0 ~ 10VDC



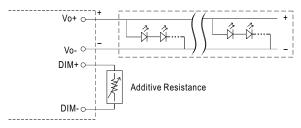
"DO NOT connect "DIM- to Vo-"

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

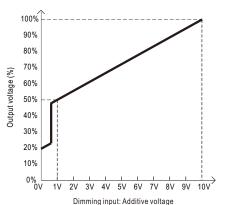


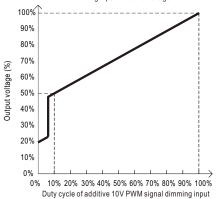
"DO NOT connect "DIM- to Vo-"

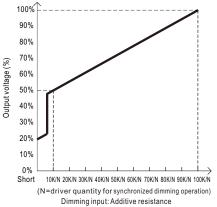
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





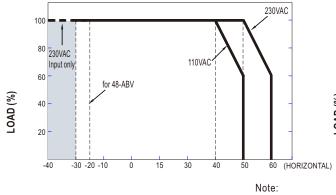


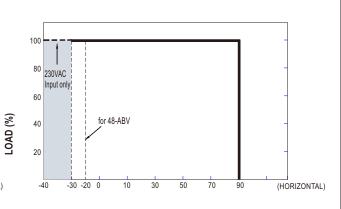
Note: 1. Min. dimming level is about 50% of output voltage and the output voltage is not defined when Vout<50%

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



#### ■ OUTPUT LOAD vs TEMPERATURE



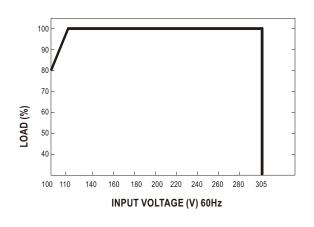


Tcase (°C)

AMBIENT TEMPERATURE, Ta (°C)

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

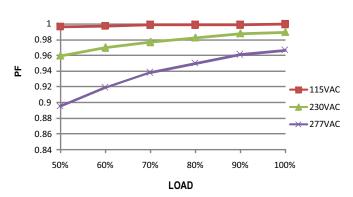
#### ■ STATIC CHARACTERISTIC



# **■ POWER FACTOR (PF) CHARACTERISTIC**

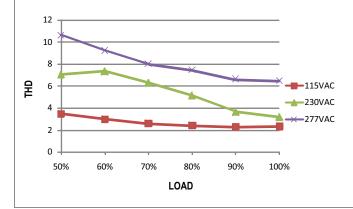
★ Tcase at 75°C

#### **Constant Current Mode**



#### ■ TOTAL HARMONIC DISTORTION (THD)

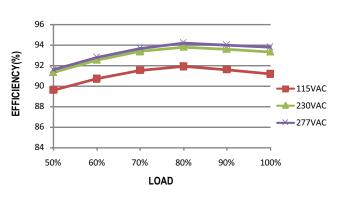
#### ※ XLG-240-L Model, Tcase at 75°C



#### **■** EFFICIENCY vs LOAD

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

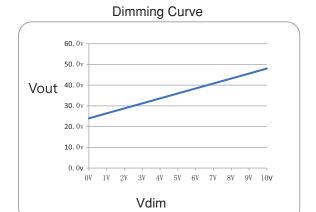
※ XLG-240-L Model, Tcase at 75°C

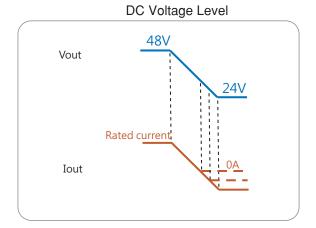


### ■ CONSTANT VOLTAGE DIMMING OPERATION:

48-ABV type

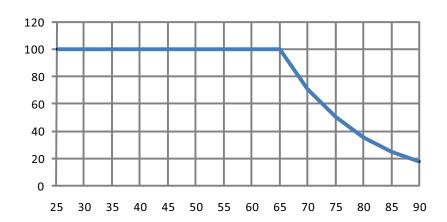
Note: flicker free design for agricultural lighting flicker free design for Indoor LED strip lighting



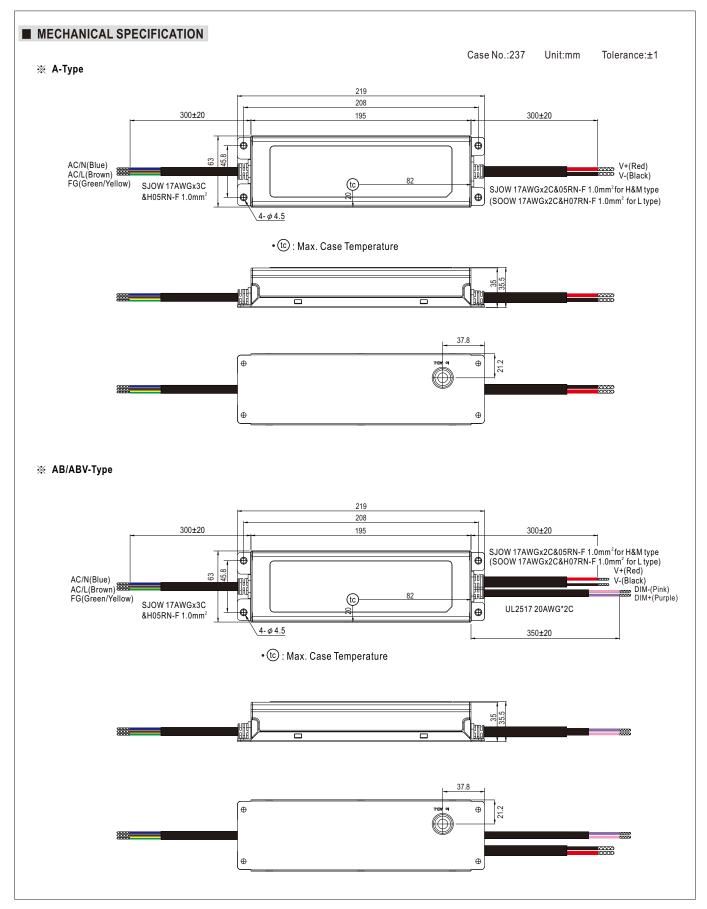


# **■** LIFE TIME



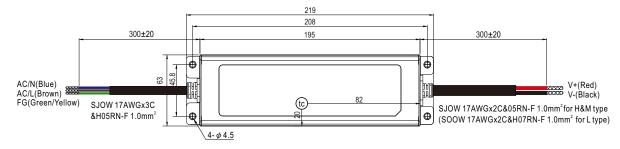








# ※ Blank-Type

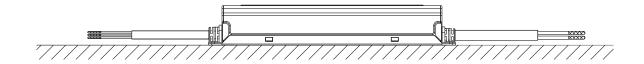


#### • tc : Max. Case Temperature





# ■ Recommend Mounting Direction



#### ■ INSTALLATION MANUAL

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