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### 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 with Input Over Voltage Protection 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
- DMX power supply
- Type HL for use in class I, Division 2

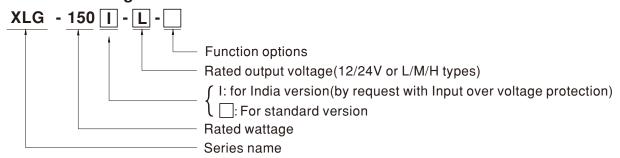
# GTIN CODE

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

# Description

XLG-150 series is a 150W LED AC/DC driver featuring the constant power mode.XLG-150 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 12500mA. Thanks to the high efficiency up to 93%, with the fanless design, the entire series is able to operate for -40°C ~+90°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-150 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 user and luminaire system during 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

Note: 1.12V and 24V models without the AB type

2.India version needs MOQ for production, please consult MEANWELL for detail



## **SPECIFICATION**

		XLG-15012	XLG-150 <u></u> -24-				
	DC VOLTAGE	12V	24V				
OUTPUT	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8~ 24V				
	RATED CURRENT	12.5A	6.25A				
	RATED POWER	150W	150W				
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mVp-p				
	AUDDENT AD L DANGE	Adjustable for A-Type only (via the built-in potentiometer)					
	CURRENT ADJ. RANGE	6.5~12.5A 3.2~6.25A					
	VOLTAGE TOLERANCE Note.4	±3.0%					
	LINE REGULATION	±0.5%	±2.0% ±0.5%				
	LOAD REGULATION	±2%	±1%				
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC					
	,	10ms/ 230VAC 10ms/ 115VAC	V/10				
	HOLD UP TIME (Typ.)						
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)					
	EDECUENCY DANCE						
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load					
	TOTAL HARMONIC DISTORTION	THD< 10%(@load≧50%/115VC,230VAC; @lo	, , , , , , , , , , , , , , , , , , ,				
PUT	EFFICIENCY (Typ.)	91.5%	93%				
	AC CURRENT	1.8A / 115VAC 1.0A / 230VAC 0.8A / 277VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=500μs measured at 50% Ipeak) at 230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC					
	CIRCUIT BREAKER	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	POWER CONSUMPTION	No load power consumption <0.5W(for standar	d version)				
		95 ~ 108%					
	OVER CURRENT	Hiccup mode or constant current limiting, recovers automatically after fault condition is removed					
	SHORT CIRCUIT	Hiccup mode or constant current limiting, recov	<u> </u>				
OTECTION	CHOICE CIRCOTT	13.5 ~ 18V 27 ~ 34V					
	OVER VOLTAGE	Shut down output voltage, re-power on to recover					
		320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is remove					
	INPUT OVER VOLTAGE Note.7						
	OVER TEMPERATURE	Can survive input voltage stress of 440Vac for 48 hours @ tc 75°C max  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						
IVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90°C , 10 ~ 95% RH					
VIRONMENT		-40 ~ +90°C, 10 ~ 95% RH ±0.06%/°C (0 ~ 60°C)					
IVIRONMENT	STORAGE TEMP., HUMIDITY	,	in. each along X, Y, Z axes				
IVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	±0.06%/°C (0 ~ 60°C)	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29),KC61347-1	· · · · · · · · · · · · · · · · · · ·			
VIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J613	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29),KC61347-1 except for Blank type);IP67 approved	· · · · · · · · · · · · · · · · · · ·			
IVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7	±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J613 (for XLG-150I type only);NOM-058-SCFI-2017(6	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29),KC61347-1 except for Blank type);IP67 approved G:1.5KVAC	· · · · · · · · · · · · · · · · · · ·			
VIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J613 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-0/P:3.75KVAC I/P-FG:2KVAC O/P-F	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29),KC61347-1 except for Blank type);IP67 approved G:1.5KVAC	· · · · · · · · · · · · · · · · · · ·			
VIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J613 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VL  Parameter S	13-12; ENEC BS EN/EN61347-1, BS EN/El 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard	KC61347-2-13,IS15885(Part2/Sec13)			
VIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J613 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VL  Parameter S Conducted B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH standard SS EN/EN55015(CISPR15), GB/T17743	KC61347-2-13,IS15885(Part2/Sec13)  Test Level/Note			
VIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mir  UL8750(type"HL"), UL879,CSA C22.2 No. 250. 6B19510.1, GB19510.14;EAC TP TC 004; J613  (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VL  Parameter S Conducted B Radiated B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743	KC61347-2-13,IS15885(Part2/Sec13)  Test Level/Note			
/IRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. 6B19510.1, GB19510.14;EAC TP TC 004; J613. (for XLG-1501 type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743	KC61347-2-13,IS15885(Part2/Sec13)    Test Level/Note			
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. 6B19510.1, GB19510.14;EAC TP TC 004; J613. (for XLG-150l type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743	KC61347-2-13,IS15885(Part2/Sec13)  Test Level/Note			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. 6B19510.1, GB19510.14;EAC TP TC 004; J613. (for XLG-1501 type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B S EN/EN61547	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved GC:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3	Test Level/Note   Class C @load≥50%   Class			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. 6B19510.1, GB19510.14;EAC TP TC 004; J613( (for XLG-150) type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B S EN/EN61547 Parameter S	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3	Test Level/Note   Class C @load≥50%   Test Level/Note   Class C @load≥50%   Test Level/Note			
FETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. 6B19510.1, GB19510.14;EAC TP TC 004; J613. (for XLG-1501 type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B S EN/EN61547 Parameter S ESD B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3  Standard BS EN/EN61000-4-2	Test Level/Note   Class C @load≥50%   Class			
IFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. 6B19510.1, GB19510.14;EAC TP TC 004; J613. (for XLG-1501 type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B S EN/EN61547 Parameter S ESD B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3	Test Level/Note   Class C @load≥50%   Test Level/Note   Class C @load≥50%   Test Level/Note   Test			
IFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	### ##################################	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3  Standard BS EN/EN61000-4-2	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 Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	### ##################################	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 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  Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	#0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1 , GB19510.14;EAC TP TC 004; J613 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VL Parameter S Conducted B Radiated B Harmonic Current B SEN/EN61547 Parameter S ESD B Radiated B Radiated B Radiated B FFT/Burst B Surge B Conducted B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 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 &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	#0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1 , GB19510.14;EAC TP TC 004; J613 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VL Parameter S Conducted B Radiated B Harmonic Current BS EN/EN61547  Parameter S ESD B Radiated B Radiated B FFT/Burst B Surge Conducted B Seconducted B Radiated B	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 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 optio			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	#0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J611 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B Voltage Flicker B BS EN/EN61547 Parameter S ESD B Radiated B EFT/Burst B Surge B Conducted B Magnetic Field B BACONDER SEN/EN615 B BACONDER S	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved GC:1.5KVAC DC / 25°C / 70% RH  Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8	Test Level/Note  Class C @load≥50% Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K optio) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	#0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J613 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE  Parameter S Conducted B Radiated B Harmonic Current B Voltage Flicker B BS EN/EN61547  Parameter S ESD B Radiated B EFT/Burst B Surge B Conducted B Magnetic Field B BACONDUCTED B BACONDUC	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-4 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 optio) Level 2 Level 4			
AFETY &	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	#0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1, GB19510.14;EAC TP TC 004; J611 (for XLG-150I type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VE Parameter S Conducted B Radiated B Harmonic Current B Voltage Flicker B BS EN/EN61547 Parameter S ESD B Radiated B EFT/Burst B Surge B Conducted B Magnetic Field B BACONDER SEN/EN615 B BACONDER S	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 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 optio) 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 Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	#0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 72mi UL8750(type"HL"), UL879,CSA C22.2 No. 250. GB19510.1 , GB19510.14;EAC TP TC 004; J611 (for XLG-1501 type only);NOM-058-SCFI-2017(e I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VL Parameter S Conducted B Radiated B Harmonic Current B S EN/EN61547 Parameter S ESD B Radiated B EFT/Burst B Surge B Conducted B Magnetic Field B Voltage Dips and Interruptions	13-12; ENEC BS EN/EN61347-1, BS EN/E 347-1(H29), J61347-2-13(H29), KC61347-1 except for Blank type); IP67 approved G:G:1.5KVAC DC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 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			

- Please refer to "DRIVING METHODS OF LED MODULE"
- 2. Flease felet to Briving METHOUS OF LED widold Let.
  3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
  4. Tolerance: includes set up tolerance, line regulation and load regulation.
  5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
  6. 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.
  7. Input over voltage only for XLG-150 I series, and I series without UL/CSA certificate.

- 8. 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.

  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).
- 9. The ambient temperature derating of 3.5 c/1000m with famess models and of 5 c/1000m with fames models for operating attitude higher than 2000m(csould be presented as a construction of the product of

- 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.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



#### **SPECIFICATION**

MODEL		XLG-150L	XLG-150 M	XLG-150H			
	RATED CURRENT	700mA	1400mA	2800mA			
OUTPUT	RATED POWER	150W	150W	150W			
	CONSTANT CURRENT REGION	120 ~214V	60 ~ 107V	27 ~ 56V			
	FULL POWER CURRENT RANGE	700~1050mA	1400~2100mA	2680~4170mA			
	OPEN CIRCUIT VOLTAGE (max.)	225V	115V	60V			
		Adjustable for A/AB-Type only (via the built-in potentiometer)					
	CURRENT ADJ. RANGE	350~1050mA	700~2100mA	1400~4170mA			
	CURRENT RIPPLE	4.0%(@ full load)	3.0%(@ full load)	3.0%(@ full load)			
	CURRENT TOLERANCE	±5%					
	SET UP TIME	500ms/230VAC, 1200ms/115VAC					
		100 ~ 305VAC 142VDC ~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	DOMED SACTOR (T)	$PF \ge 0.97 / 115VAC$ , $PF \ge 0.95 / 230VAC$ , $PF \ge 0.92 / 277VAC$ at full load					
	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)					
		THD<10% (@ load≥50% at 115VAC/230VAC, @load≥75% at 277VAC)					
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
	EFFICIENCY (Typ.)	93%	92.5%	92%			
NPUT	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 0.8A/27		•			
	INRUSH CURRENT(Typ.)	COLD START50A(twidth=500µs measured a					
	MAX. NO. of PSUs on 16A	, ,					
	CIRCUIT BREAKER	4 unit(circuit breaker of type B) / 8 units(circ	uit breaker of type C) at 230VAC				
		40.75A / 0.771/A O					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY POWER	Standby power consumption <0.5W for AB-	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)				
	CONSUMPTION Note.14	* *	<u> </u>	aovod			
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	230 ~ 265V	128~ 150V	61 ~ 85V			
ROTECTION		Shut down output voltage, re-power on to recovery					
KOTECTION	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is remove					
	OVER TEMPERATURE	Can survive input voltage stress of 440Vac for 48 hours @ tc 75°C max					
	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					
ENVIDONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
NVIDONMENT	OTODAOE TEMP IIIIMDITY	-40 ~ +80 °C, 10 ~ 95% RH non-condensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY						
NVIRONMENT	TEMP. COEFFICIENT	±0.06%/°C (0 ~ 60°C)					
NVIRONMENT		$\pm 0.06\%$ (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7	2min. each along X, Y, Z axes				
NVIRONMENT	TEMP. COEFFICIENT VIBRATION	$\pm 0.06\%$ (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13-	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-				
NVIRONMENT	TEMP. COEFFICIENT	$ \pm 0.06\% / ^{\circ} C (0 \sim 60 ^{\circ} C) $ $ 10 \sim 500 Hz, 5G 12 min. / 1 cycle, period for 7 $ $ UL8750 (type"HL"), CSA C22.2 No. 250.13 - GB19510.1, GB19510.14; EAC TP TC 004; J61 $	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- 347-1(H29), J61347-2-13(H29),KC61347-1,KC61				
NVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7	$ \pm 0.06\% / ^{\circ} C ~(0 \sim 60 ^{\circ} C) $ $ 10 \sim 500 Hz, 5G ~12 min. / 1 cycle, period for ~7 $ $ UL8750 (type^{*}HL^{*}), CSA ~C22.2 ~No.~250.13-GB19510.1, GB19510.14; EAC ~TP ~TC ~004; J61 \\ (for XLG-150I ~type ~only); NOM-058-SCFI-20 \\ $	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- 347-1(H29), J61347-2-13(H29),KC61347-1,KC61 17(except for Blank type);IP67 approved				
NVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20: I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- 347-1(H29), J61347-2-13(H29), KC61347-1, KC61 17(except for Blank type); IP67 approved P-FG:1.5KVAC				
NVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7	$ \pm 0.06\% / ^{\circ} C ~(0 \sim 60 ^{\circ} C) $ $ 10 \sim 500 Hz, 5G ~12 min. / 1 cycle, period for ~7 $ $ UL8750 (type^{*}HL^{*}), CSA ~C22.2 ~No.~250.13-GB19510.1, GB19510.14; EAC ~TP ~TC ~004; J61 \\ (for XLG-150I ~type ~only); NOM-058-SCFI-20 \\ $	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- 347-1(H29), J61347-2-13(H29), KC61347-1, KC61 17(except for Blank type); IP67 approved P-FG:1.5KVAC				
NVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20: I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61317(except for Blank type); IP67 approved P-FG:1.5KVAC DVDC / 25°C / 70% RH  Standard				
NVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20: I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,	347-2-13, IS15885(Part2/Sec13)			
NVIRONMENT	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20: I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61317(except for Blank type); IP67 approved P-FG:1.5KVAC DVDC / 25°C / 70% RH  Standard	347-2-13, IS15885(Part2/Sec13)  Test Level/Note			
VVIRONMENT	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20- I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,	747-2-13, IS15885(Part2/Sec13)  Test Level/Note			
	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-1501 type only);NOM-058-SCFI-20- I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,	Test Level/Note			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13-6819510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-1501 type only);NOM-058-SCFI-20-1/P-O/P:3.75KVAC	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,	Test Level/Note			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-1501 type only);NOM-058-SCFI-20- I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,	Test Level/Note			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- G819510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-1501 type only);NOM-058-SCFI-20  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,	Test Level/Note Class C @load≥50%			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- G819510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-1501 type only);NOM-058-SCFI-20- I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,	Test Level/Note Class C @load≥50% Test Level/Note			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13-6819510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-1501 type only);NOM-058-SCFI-20 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD	2min. each along X, Y, Z axes  12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1	Test Level/Note  Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13-6 G819510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-1501 type only);NOM-058-SCFI-20  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated	2min. each along X, Y, Z axes  12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61:  17(except for Blank type); IP67 approved  P-FG:1.5KVAC  DVDC / 25°C/70% RH  Standard  BS EN/EN55015(CISPR15), GB/T17743  BS EN/EN55015(CISPR15), GB/T17743  BS EN/EN61000-3-2, GB/T17625.1  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 Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13-6B19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61: 17(except for Blank type); IP67 approved P-FG:1.5KVAC DVDC / 25°C / 70% RH  Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 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			
SAFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13-6 GB19510.1, GB19510.14;EAC TP TC 004;JB1 (for XLG-150I type only);NOM-058-SCFI-20  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1,KC61: 17(except for Blank type);IP67 approved P-FG:1.5KVAC DVDC / 25°C / 70% RH  Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3  Standard 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			
SAFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20: I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field	2min. each along X, Y, Z axes  12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-1, KC61347-1, KC6	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 &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61: 17(except for Blank type); IP67 approved P-FG:1.5KVAC DVDC / 25°C / 70% RH  Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3  Standard 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			
AFETY &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-1, KC61347-1, KC61	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 &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  MTBF	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 712.17K hrs min. Telcordia SR-332 (6)	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-1, KC61347-1, KC61	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,			
AFETY & MC	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7  WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  MTBF LIFETIME Note.4	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  712.17K hrs min. Telcordia SR-332 (150000 hrs min.	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-1, KC61347-1, KC61	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 &	TEMP. COEFFICIENT VIBRATION  SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  MTBF	±0.06%/°C (0 ~ 60°C)  10 ~ 500Hz, 5G 12min./1cycle, period for 7  UL8750(type"HL"), CSA C22.2 No. 250.13- GB19510.1, GB19510.14;EAC TP TC 004;J61 (for XLG-150I type only);NOM-058-SCFI-20 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 712.17K hrs min. Telcordia SR-332 (6)	2min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-1(H29), J61347-1, KC61347-1, KC61	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			

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

- 3. The driver is considered as a component that will be operated in component that will be affected by the

  3. The driver is considered as a component that will be operated in component. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
- 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. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 11. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less.

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

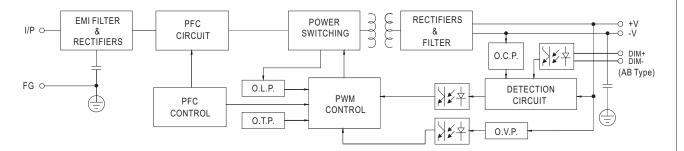
  13. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED\_EN.pdf

- 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. X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



#### ■ BLOCK DIAGRAM

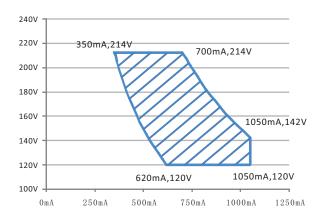
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### ■ DRIVING METHODS OF LED MODULE

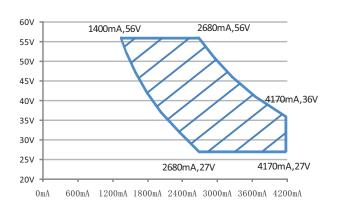
#### **%** I-V Operating Area

#### 



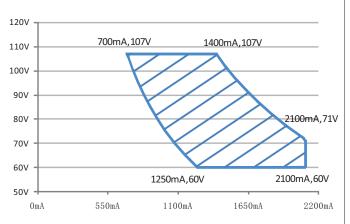
#### Recommend Performance Region

## 



Recommend Performance Region

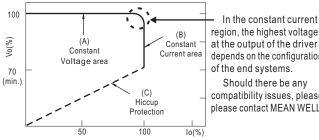
#### 



Recommend Performance Region

## 

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please please contact MEAN WELL.

Typical output current normalized by rated current (%)

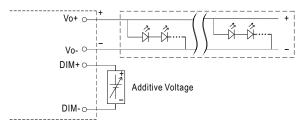


### **■ DIMMING OPERATION**



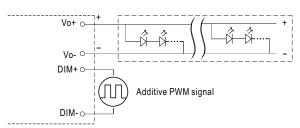
#### \* 3 in 1 dimming function (for AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:  $0 \sim 10 \text{VDC}$ , or 10 V 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.)



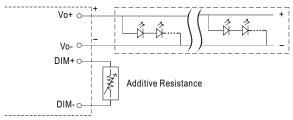
"DO NOT connect "DIM- to Vo-"

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

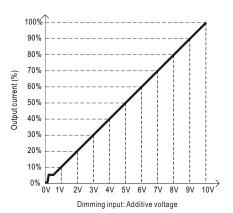


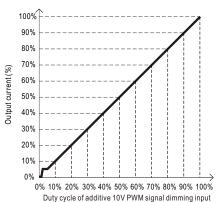
"DO NOT connect "DIM- to Vo-"

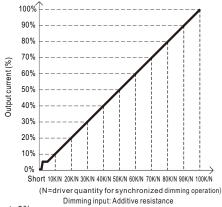
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





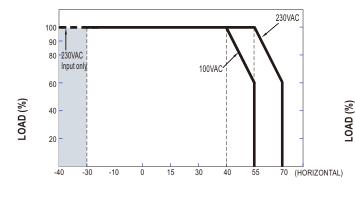


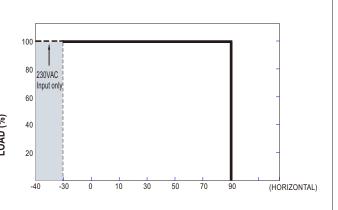
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.

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





AMBIENT TEMPERATURE, Ta (°C)

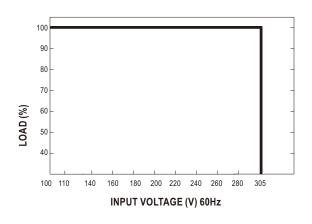
Tcase (°C)

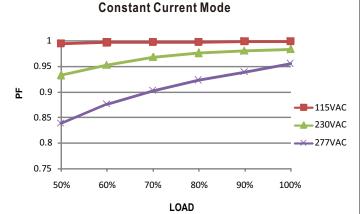
If XLG-150 operates in Constant Current mode with the rated current the maximum workable Ta is  $55^{\circ}$ C (Typ. 230VAC) or  $40^{\circ}$ C (Typ.100VAC) Below 110VAC@ - $30^{\circ}$ C may retry to 2nd setup

## ■ STATIC CHARACTERISTIC

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

Tcase at 75°C





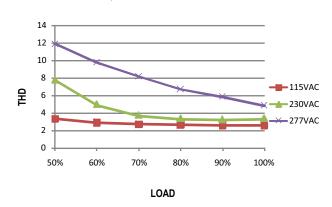
# ■ TOTAL HARMONIC DISTORTION (THD)

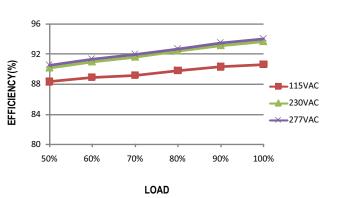
#### **■** EFFICIENCY vs LOAD

XLG-150-L Model, Tcase at 75°C

 $\rm XLG\text{-}150$  series possess superior working efficiency that up to 93% can be reached in field applications.

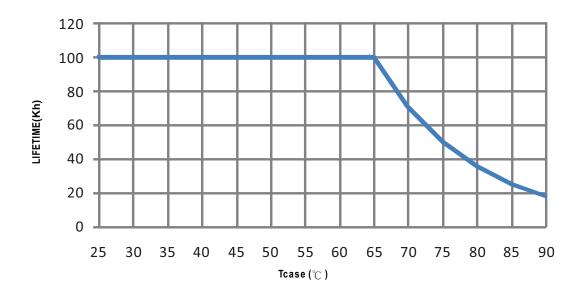
XLG-150-L Model, Tcase at  $75^{\circ}\!\!\!\subset$ 



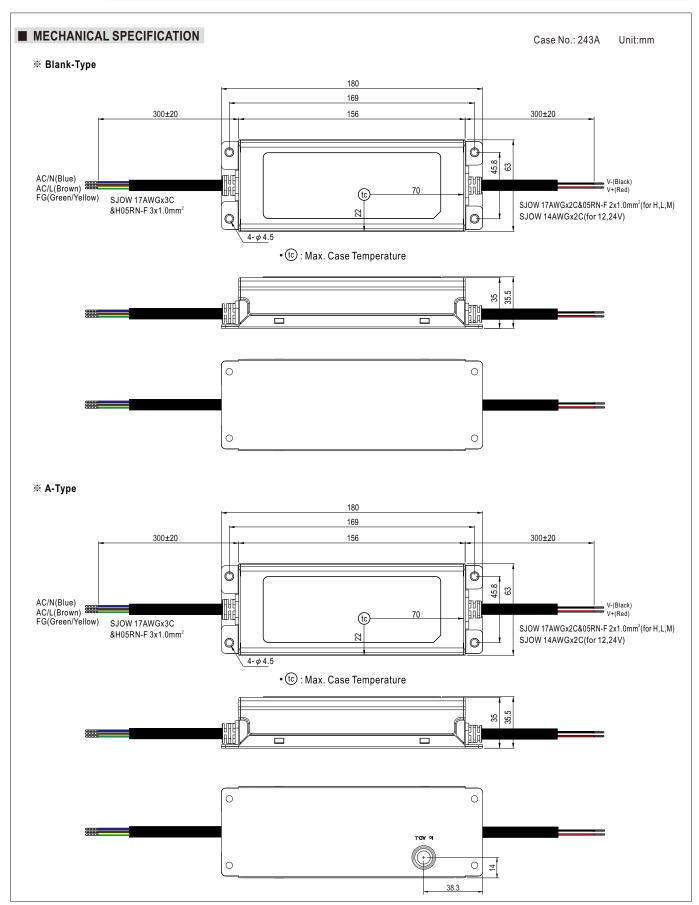




# ■ LIFE TIME

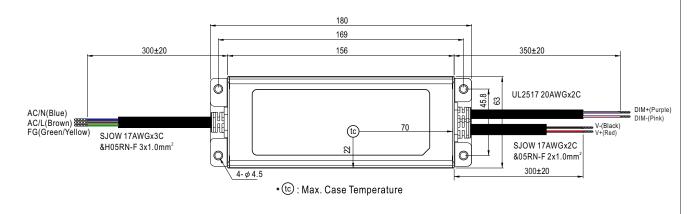








# ※ AB-Type





# ■ INSTALLATION MANUAL

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