



XLG-150





























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
- Compliance to EN60335-1 household application
- Life time >50,000 hrs. and 5 years warranty

Applications

- Skyscraper lighting
- Street lighting
- · Floodlight Lighting
- · Stage lighting
- Horticulture lighting
- · Bay lighting
- DMX power supply
- Type HL for use in class I, Division 2
- · Household devices
- Retail and refrigerated display

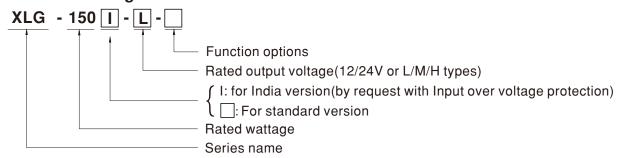
GTIN CODE

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 $^{\circ}$ 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-150 series comply with the latest version of IEC61347/GB19510.1 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both user and luminaire system during installation.

Model Encoding



Туре	Function	Note
Blank	lo 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

MODEL	OATION	XLG-150 -12-	XLG-150			
	DC VOLTAGE	12V	24V	, -· L		
ОИТРИТ	CONSTANT CURRENT REGION Note.2		16.8~ 24V			
	RATED CURRENT (Default)	12.5A	6.25A			
	RATED POWER	150W	150W			
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mVp-p			
	,	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% ±2.0%				
	LINE REGULATION	±0.5% ±0.5%				
	LOAD REGULATION	±2%	±1%			
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC				
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC				
	VOLTAGE DANGE N	100 ~ 305VAC 142 ~ 431VDC				
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	$PF \!\! \geq \! 0.97/115 VAC, PF \!\! \geq \! 0.95/230 VAC, PF \!\! \geq \! 0.92/277 VAC \! $				
	TOTAL HARMONIC DISTORTION	THD<10%(@load≥50%/115VC,230VAC; @load≥75%/277VAC)				
INPUT	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					
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W(for standard version)				
	OVER CURRENT	95 ~ 108%				
	OVER CORRENT	Hiccup mode or constant current limiting, recovers automatically after fault condition is removed				
	SHORT CIRCUIT	Hiccup mode or constant current limiting, recovers automatically after fault condition is removed				
PROTECTION	OVER VOLTAGE	13.5~18V 27~34V				
	OVERVOLINGE	Shut down output voltage, re-power on to recover				
	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed)				
		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				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.06%/°C (0 ~ 60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
	SAFETY STANDARDS Note.7	UL8750(type"HL"), UL879,CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, EN 60335 compliant to EN 60335-2-89 Annex BB, EN 60335-2-24 Annex CC;GB19510.1, GB19510.14;EAC TP TC 004; J61347-1(H29), J61347-2-13(H29), KC61347-1,KC61347-2-13,IS15885(Partz/Sec13)(for XLG-150I type only);NOM-058-SCFI-2017(except for Blank type);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 / 500	VDC / 25°C / 70% RH			
	EMC EMISSION EMC IMMUNITY	Parameter	Standard	Test Level/Note		
		Conducted	BS EN/EN55015(CISPR15),GB/T	17743		
		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				
EMC		Parameter	Standard	Test Level/Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 2		
		EFT/Burst	BS EN/EN61000-4-4	Level 3		
		Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth(6K/10K option)		
		Conducted Magnetic Field	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	2269.5K hrs min. Telcordia SR-332 (Bellcore); 213.3Khrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	180*63*35.5mm (L*W*H)				
	PACKING	0.8Kg;16pcs / 13.4Kg /0.69CUFT				
NOTE	1. All parameters NOT speciall	y mentioned are measured at 230VAC input,	rated current and 25°C of ambient te	mperature.		

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
- Please refer to "DRIVING METHODS OF LED MODULE".
 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
- 3. Nipple & flose are frieswised at 2014/12 of barlowdurf by using a 12 twissed pair-wire terminated with a 0. full & 47 of part 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)

 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 (c) 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



SPECIFICATION

		XLG-150L	XLG-150 M	XLG-150H			
	RATED CURRENT (Default)	700mA	1400mA	2800mA			
ОИТРИТ	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					
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer)					
	CORRENT ADJ. RANGE	350~1050mA	700~2100mA	1400~4170mA			
	CURRENT RIPPLE	4.0%(@ full load)	3.0%(@ full load)	3.0%(@ full load)			
	CURRENT TOLERANCE	$\pm 5\%$					
	SET UP TIME	500ms/230VAC, 1200ms/115VAC					
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang "DRIVING METHODS OF LED MODULE"section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	$PF \ge 0.97 \ / \ 115VAC, PF \ge 0.95 \ / \ 230VAC, PF \ge 0.92 \ / \ 277VAC \ at full \ load$ (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 DISTORTION (THD)" section					
	EFFICIENCY (Typ.)	93%	92.5%	92%			
PUT	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 0.8A / 277VAC					
	INRUSH CURRENT(Typ.)	COLD START50A(twidth=500µs measured at 50% lpeak) at 230VAC; Per NEMA 410					
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	4 unit(circuit breaker of type B) / 8 units(circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY POWER CONSUMPTION Note.14	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 rem	noved			
	OVER VOLTAGE	230 ~ 265V	128~ 150V	61 ~ 85V			
	OVER VOLTAGE	Shut down output voltage, re-power on to recovery					
OTECTION	INDUT OVER VOLTAGE, Note 7	320 ~ 390VAC (Shut down output voltage when the input voltage 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 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
VIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80 °C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.06%/°C (0 ~ 60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for	72min. each along X, Y, Z axes				
		UL8750(type"HL"), UL879,CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, EN 603 compliant to EN 60335-2-89 Annex BB, EN 60335-2-24 Annex CC;GB19510.1, GB19510.14;EAC TP TC 004; J81347-1(H29), J81347-2-13(H2 KC61347-1,KC61347-2-13,IS15885(Part2/Sec13)(for XLG-150) type only);NOM-058-SCFI-2017(except for Blank type);IP67 approved					
	SAFETY STANDARDS Note.7	compliant to EN 60335-2-89 Annex BB, E	N 60335-2-24 Annex CC;GB19510.1 , GB19510.14	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H			
	SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	compliant to EN 60335-2-89 Annex BB, E	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H			
		compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part2 I/P-O/P:3.75KVAC I/P-FG:2KVAC	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI- O/P-FG:1.5KVAC	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H			
	WITHSTAND VOLTAGE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI- O/P-FG:1.5KVAC	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H			
	WITHSTAND VOLTAGE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved			
	WITHSTAND VOLTAGE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note			
	WITHSTAND VOLTAGE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN55015(CISPR15),GB/T 17743	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 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	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current Voltage Flicker	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 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	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 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	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50%			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150l type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 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	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50%			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part/2 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	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 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	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part/2 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150l type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 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	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part/2 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 O/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard 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	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type); IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Partz I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / S Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard 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 BS EN/EN61000-4-5	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved 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 &	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part/2 I/P-O/P:3.75KVAC I/P-FG:2KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard 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/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-5 BS EN/EN61000-4-6	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved 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			
ic	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part/2 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	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard 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 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 BS EN/EN61000-4-11	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved 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 option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	compliant to EN 60335-2-89 Annex BB, El KC61347-1,KC61347-2-13,IS15885(Part/2 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	N 60335-2-24 Annex CC;GB19510.1, GB19510.14 2/Sec13)(for XLG-150I type only);NOM-058-SCFI-2 0/P-FG:1.5KVAC 500VDC / 25°C / 70% RH Standard 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 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 BS EN/EN61000-4-11	;EAC TP TC 004; J61347-1(H29), J61347-2-13(H: 2017(except for Blank type);IP67 approved 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 option) Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE".
- 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. 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/EM_statement_en.pdf)

 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 (c) 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.

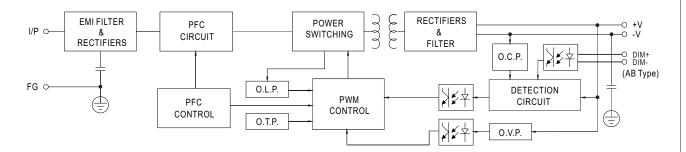
 15. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.

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



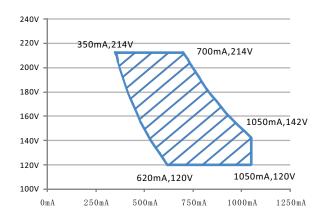
■ BLOCK DIAGRAM

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

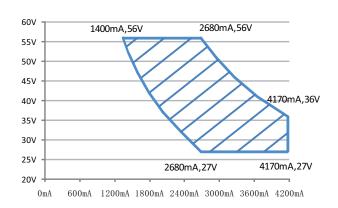


■ DRIVING METHODS OF LED MODULE

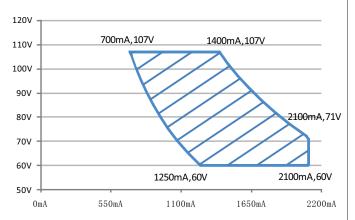
% I-V Operating Area



Recommend Performance Region

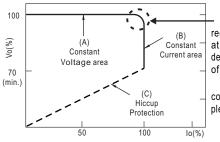


Recommend Performance Region



Recommend Performance Region

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.



 In the constant current 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 (%)

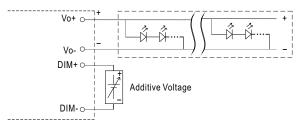


■ DIMMING OPERATION

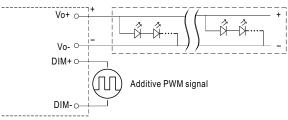


* 3 in 1 dimming function (for AB-Type)

- 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 μ A (typ.)

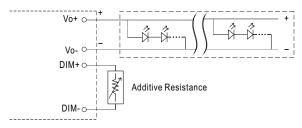


"DO NOT connect "DIM- to Vo-"

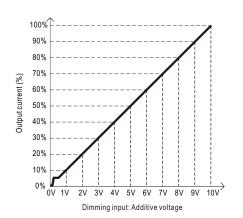


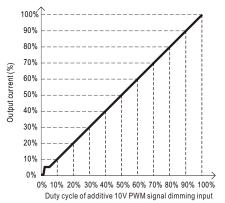
"DO NOT connect "DIM- to Vo-"

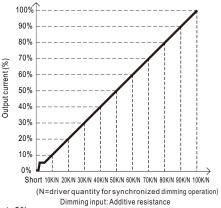
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





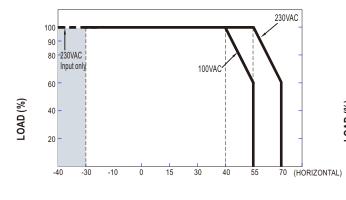


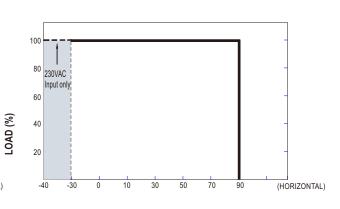
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

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)

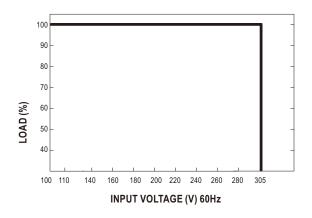
Tcase (°C)

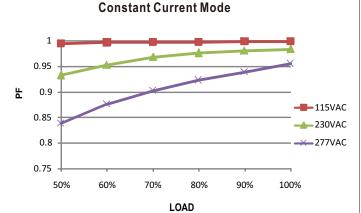
If XLG-150 operates in Constant Current mode with the rated current the maximum workable Ta is $55\,^{\circ}$ C (Typ. 230VAC) or $40\,^{\circ}$ C (Typ.100VAC) Below 110VAC@ -30° C may retry to 2nd setup

■ STATIC CHARACTERISTIC

■ POWER FACTOR (PF) CHARACTERISTIC

Tcase at 75°C



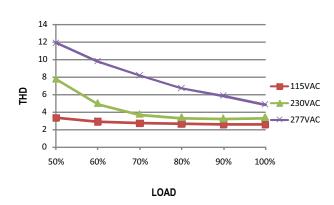


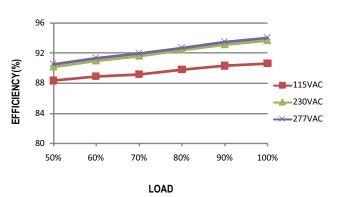
■ TOTAL HARMONIC DISTORTION (THD)

■ EFFICIENCY vs LOAD

XLG-150-L Model. Tcase at 75°C

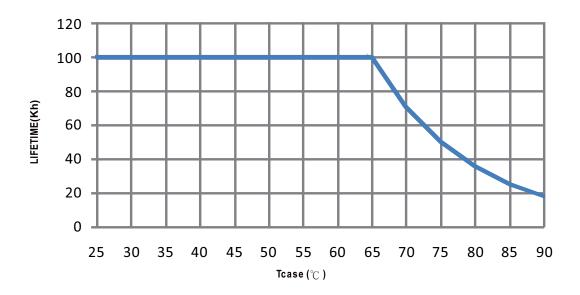
XLG-150 series possess superior working efficiency that up to 93% can be reached in field applications. XLG-150-L Model. Tcase at 75°C



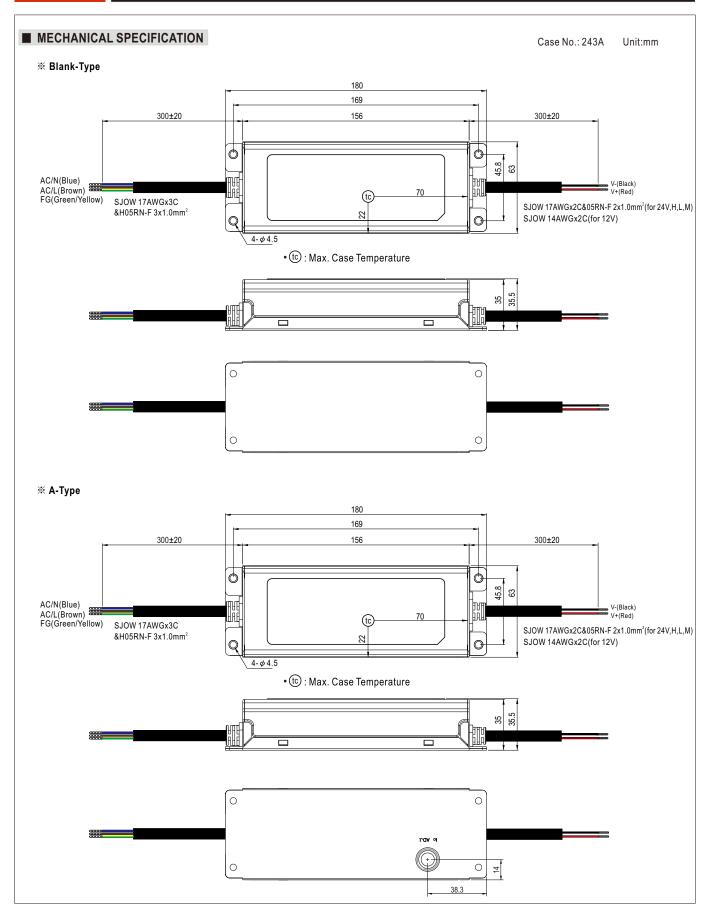




■ LIFE TIME







V-(Black) V+(Red)

SJOW 17AWGx2C

&05RN-F 2x1.0mm² 300±20

0

4-φ4.5



※ AB-Type 180 169 156 300±20 350±20 6 UL2517 20AWGx2C 45.8 DIM+(Purple) DIM-(Pink) AC/N(Blue) AC/L(Brown) FG(Green/Yellow)

• (tc): Max. Case Temperature

(tc)



■ Recommend Mounting Direction

SJOW 17AWGx3C

&H05RN-F 3x1.0mm²



■ INSTALLATION MANUAL

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