





























# ■ 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
- Class 2 power unit(except for L type)
- Surge protection with 6KV/4KV
- 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

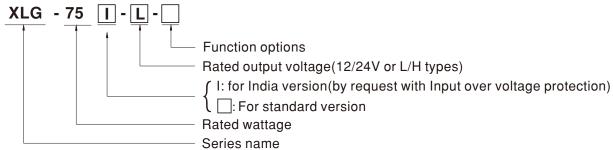
## ■ GTIN CODE

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

# Description

XLG-75 series is a 75W LED AC/DC driver featuring the constant power mode.XLG-75 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 5000mA. Thanks to the high efficiency up to 91%, 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-75 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



Type	Function	Note
Blank	lo and Vo fixed.(For harsh envirenment)	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
CV	CV-type only with constant voltage function and only for 12V and 24V models, lo and Vo are fixed.	By request

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

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



### **SPECIFICATION**

		XLG-75 □-12- □		XLG-75 □-24- □				
	DC VOLTAGE	12V		24V				
	CONSTANT CURRENT REGION Note.2	8.4~ 12V		16.8~ 24V				
	RATED CURRENT (Default)	5A		3.1A				
	RATED POWER	60W		74.4W				
	RIPPLE & NOISE (max.) Note.3	150mVp-p		240mVp-p				
	CURRENT ADJ RANGE	2.5A~5A		1.55A~3.1A				
UTPUT	VOLTAGE TOLERANCE Note.4	±3.0%		±2.0%				
011 01	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 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; @load	≧75%/277VAC)					
PUT	EFFICIENCY (Typ.)	89%		90%				
	AC CURRENT	1.0A / 115VAC 0.45A / 230VAC 0.38A/277VA	/C					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured at 50%	6 Ipeak) at 230VAC; Per N	EMA 410				
	MAX. No. of PSUs on 16A	9 units (circuit breaker of type B) / 14 units (circuit	t breaker of type C) at 230	\/A <i>C</i>				
	CIRCUIT BREAKER	Carito (circuit breaker of type b) / 14 units (Circuit						
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W(for star	idard version)					
		110~160% for CV type, 95~108% for other type						
	OVER CURRENT	CV-type: Hiccup mode only; Other type: Hiccup or	constant current limiting;	Recovers automatically	after fault condition is removed			
	SHORT CIRCUIT	CV-type: Hiccup mode only; Other type: Hiccup or						
ROTECTION	OHORI OHOOH	13 ~ 19V	oonotant ourront mining,	26 ~ 36V	and take contained to the total			
	OVER VOLTAGE	Shut down output voltage, re-power on to recover						
		320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault						
	INPUT OVER VOLTAGE	condition is removed)						
	IN OI OVER VOLIAGE	Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-75I series)						
	OVER TEMPERATURE							
		Shut down output voltage, re-power on to recover						
	WORKING TEMP. MAX. CASE TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
		Tcase=+90°C						
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
IVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min.	each along X, Y, Z axes					
	SAFETY STANDARDS 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 TPTC 004;J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13, IS15885(Part2/Sec13)(for XLG-75I type only); OM-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 / 500VDC						
	ISOLATION RESISTANCE				Test Level/Note			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter	/ 25°C / 70% RH Standard	15) ,GB/T 17743	Test Level/Note			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Conducted	/ 25°C / 70% RH Standard BS EN/EN55015(CISPR					
	ISOLATION RESISTANCE  EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC .  Parameter Conducted Radiated	/25°C/70% RH Standard BS EN/EN55015(CISPR BS EN/EN55015(CISPR	15) ,GB/T 17743				
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC  Parameter  Conducted  Radiated  Harmonic Current	/ 25°C / 70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2, G	15) ,GB/T 17743	 Class C @load≥50%			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC .  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker	/25°C/70% RH Standard BS EN/EN55015(CISPR BS EN/EN55015(CISPR	15) ,GB/T 17743				
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2, G BS EN/EN61000-3-3	15) ,GB/T 17743	 Class C @load≥50%			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2, G BS EN/EN61000-3-3  Standard	15) ,GB/T 17743	 Class C @load≥50% 			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2, G BS EN/EN61000-3-3  Standard BS EN/EN61000-4-2	15) ,GB/T 17743	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2,G BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2 BS EN/EN61000-4-3	15) ,GB/T 17743	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2, G BS EN/EN61000-3-3  Standard BS EN/EN61000-4-2	15) ,GB/T 17743	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2,G BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2 BS EN/EN61000-4-3	15) ,GB/T 17743	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3			
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2, G BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	15) ,GB/T 17743	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3			
MC AFETY &	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2, G 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	15) ,GB/T 17743	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth			
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2,G 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	15) ,GB/T 17743	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth Level 3			
	EMC EMISSION  EMC IMMUNITY	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2,G 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/EN61000-4-11	15) ,GB/T 17743 B17625.1	Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
AFETY &	EMC EMISSION  EMC IMMUNITY	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC.  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 3404.7K hrs min. Telcordia SR-332 (Bellcore);	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2,G 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/EN61000-4-11	15) ,GB/T 17743	Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC.  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 3404.7K hrs min. Telcordia SR-332 (Bellcore); 140*63*32mm (L*W*H)	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN55015(CISPR BS EN/EN61000-3-2,G 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/EN61000-4-11	15) ,GB/T 17743 B17625.1	Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
THERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC.  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 3404.7K hrs min. Telcordia SR-332 (Bellcore); 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT	25°C/70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN61000-3-2, G 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/EN61000-4-11 276.3Khrs min. MIL	15) ,GB/T 17743 B17625.1 	Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
AFETY &	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specia 2. Please refer to "DRIVING N	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC.  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 3404.7K hrs min. Telcordia SR-332 (Bellcore); 140*63*32mm (L*W*H)	25°C / 70% RH  Standard  BS EN/EN55015(CISPR BS EN/EN61000-3-2, G BS EN/EN61000-3-2  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/EN61000-4-11  276.3Khrs min. MIL-  ted current and 25°C of a ype)	15) ,GB/T 17743 B17625.1 	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth Level 3 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.

  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. Only CE/ENEC/CB is available for CV-type. XLG-751 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. 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.

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

  11. 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).

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

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

  14. 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

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

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

- 16. For A/AB 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



#### **SPECIFICATION**

MODEL		XLG-75 □ -L- □	XLG-7	5H				
RATED CURRENT (Default)		700mA	1400m	ıA				
	RATED POWER	74.9W	75.6W					
	CONSTANT CURRENT REGION	53 ~ 107V	27 ~ 56					
	FULL POWER CURRENT RANGE	700~1050mA 1300~2100mA						
UTPUT	OPEN CIRCUIT VOLTAGE (max.)	115V	60V	60V				
	CURRENT ADJ. RANGE	350~1050mA	650~2	100mA				
	CURRENT RIPPLE	3.0%(@rated current)	'					
	CURRENT TOLERANCE	±5%						
	SET UP TIME	500ms/230VAC, 1200ms/115VAC						
	VOLTAGE BANGE N	100 ~ 305VAC 142VDC ~ 431VDC						
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	$PF\!\ge\!0.97/115VAC, PF\!\ge\!0.95/230VAC, PF\!\ge\!0.92/277VACatfullload$						
	TOWERTACTOR (Typ.)	(Please refer to "Power Factor Characteristic" se	ection)					
	TOTAL HARMONIC DISTORTION	THD< 10% (@ load≧50% at 115VAC/230VAC						
	TOTAL TRAINING BIOTOR TOR	Please refer to "TOTAL HARMONIC DISTORT	TION (THD)" section					
INPUT	EFFICIENCY (Typ.)	91%	90%					
	AC CURRENT (Typ.)		277VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured at 50	% Ipeak) at 230VAC; Per NEMA 410					
	MAX. NO. of PSUs on 16A	9 unit(circuit breaker of type B) / 14 units(circuit	t breaker of type C) at 230VAC					
	CIRCUIT BREAKER							
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	STANDBY	Standby power consumption <0.5W for AB-Type	e(Dimming OFF)(for standard version	on)				
	POWER CONSUMPTION			,				
	OVER POWER	110 ~ 150%						
		Hiccup mode, recovers automatically after fault condition is removed						
ROTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed						
	INDUT OVER VOLTAGE	320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed)						
	INPUT OVER VOLTAGE	Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-75I series)						
	OVER TEMPERATURE	Shut down output voltage, re-power on to recovery						
	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						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72mi	n. each along X, Y, Z axes					
	SAFETY STANDARDS Note.7	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384;EN 60335-1 compliant to EN 60335-2-28 Annex BB, EN 60335-2-24 Annex CC;GB19510.1, GB19510.14; EAC TP TC 004;J61347-1(H29), J61347-2-13(H2 KC61347-1,KC61347-2-13,IS15885(Part2/Sec13)(for XLG-751 type only); NOM-058-SCFI-2017(except for Blank type);IP67 approved						
SAFETY &	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°C / 70% RH					
EMC		Parameter	Standard		Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15) ,G	B/T 17743				
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15) ,G	B/T 17743				
		Harmonic Current	BS EN/EN61000-3-2 ,GB1762	5.1	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3					
		BS EN/EN61547						
	EMC IMMUNITY	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 3			
		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 3			
		Magnetic Field	BS EN/EN61000-4-8		Level 4			
			l	T	>95% dip 0.5 periods, 30% dip 25 periods,			
		Voltage Dips and Interruptions	BS EN/EN61000-4-11		>95% interruptions 250 periods			
	МТВБ	Voltage Dips and Interruptions  3404.7K hrs min. Telcordia SR-332 (Bellcore		(-217F (25°ℂ)	>95% interruptions 250 periods			
THERS	MTBF DIMENSION				>95% interruptions 250 periods			
OTHERS		3404.7K hrs min. Telcordia SR-332 (Bellcore			>95% interruptions 250 periods			

- 1. Air parameters Not's specially mentioned are measured at 250×NC input, rated current and 25 € of annihilative 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. XLG-75I 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. 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.

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

  11. 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).

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

  14. 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

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

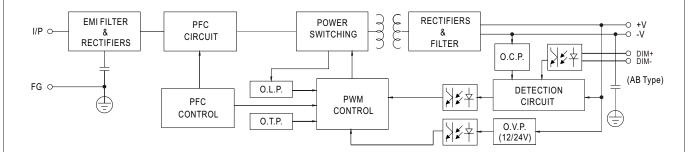
  16. For A/AB type need to consider build in using to comply with Type HL application.

  - For A/AB 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

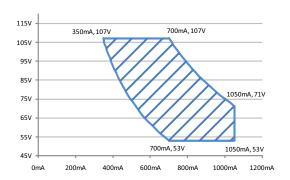
PFC fosc: 50~120KHz PWM fosc: 65KHz



#### ■ DRIVING METHODS OF LED MODULE

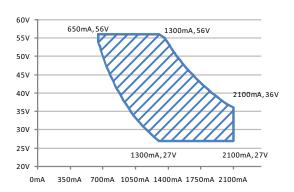
#### **%** I-V Operating Area

#### 



Recommend Performance Region

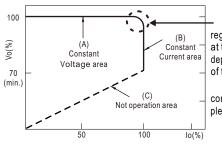
### 



Recommend Performance Region

## ⊚ XLG-75-12,24

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, except for CV-type.



 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 (%)

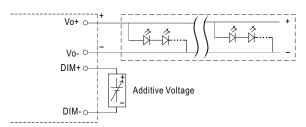


## **■ DIMMING OPERATION**



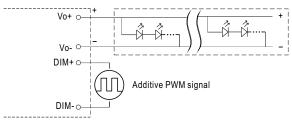
### ※ 3 in 1 dimming function (for AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   0 ~ 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.)



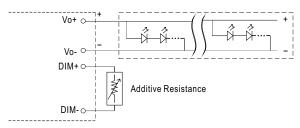
"DO NOT connect "DIM- to Vo-"

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

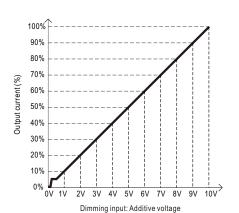


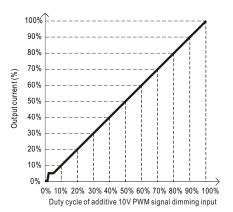
"DO NOT connect "DIM- to Vo-"

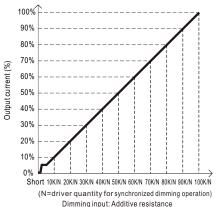
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





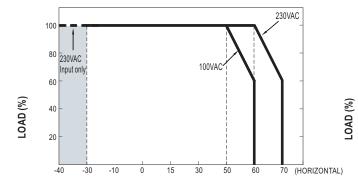


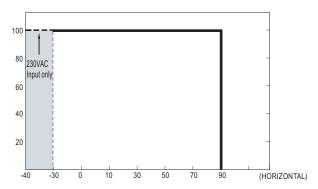
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% I out <8%.

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



## ■ OUTPUT LOAD vs TEMPERATURE



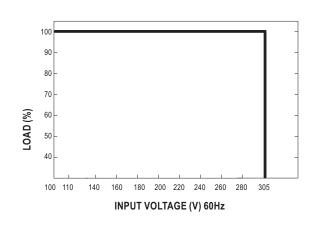


Tcase (°C)

#### AMBIENT TEMPERATURE, Ta (°C)

If XLG-75 operates in Constant Current mode with the rated current the maximum workable Ta is  $60^{\circ}$ C (Typ. 230VAC) or  $50^{\circ}$ C (Typ. 100VAC). Below 110VAC@-30°C may has restart situation within 5s after power-on.

### ■ STATIC CHARACTERISTIC

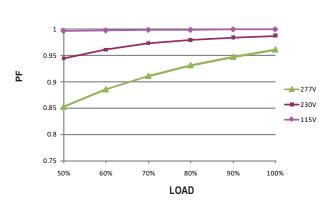


## ■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

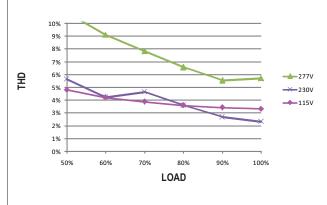
C

#### **Constant Current Mode**



## ■ TOTAL HARMONIC DISTORTION (THD)

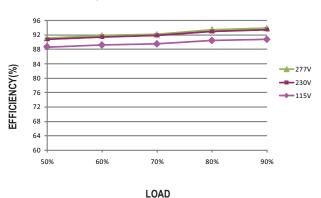
#### ※ XLG-75-L Model, Tcase at 75°C



# ■ EFFICIENCY vs LOAD

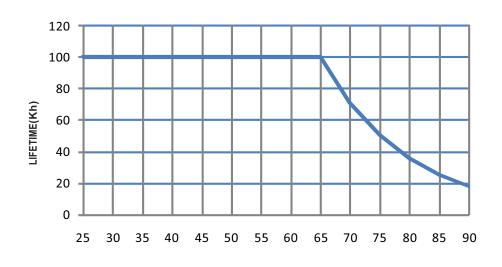
XLG-75 series possess superior working efficiency that up to 92% can be reached in field applications.

※ XLG-75-L Model, Tcase at 75°C



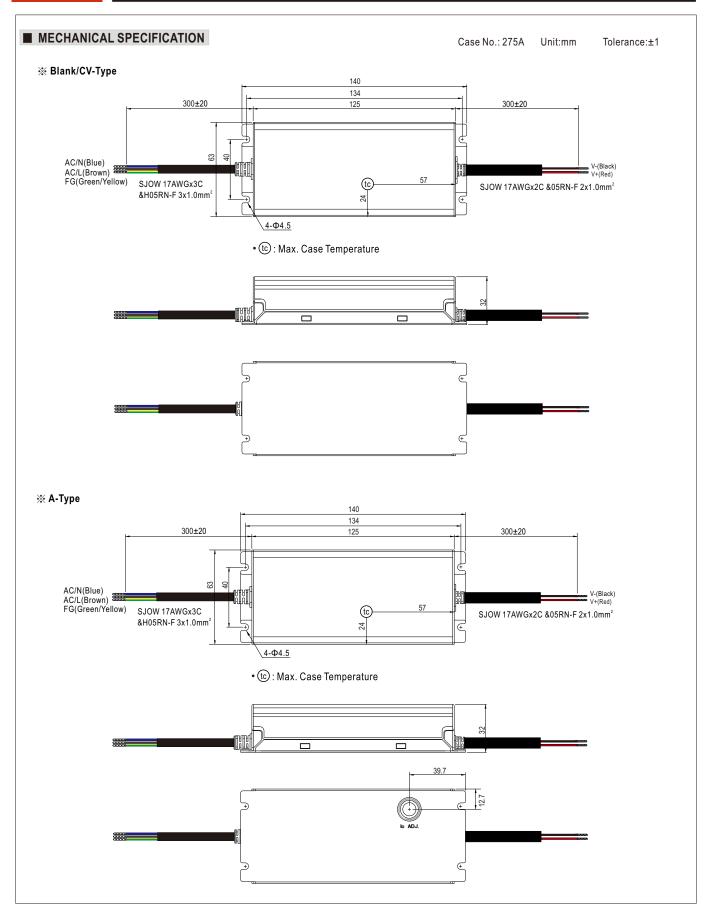


# ■ LIFE TIME



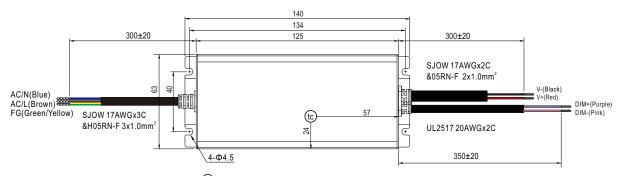
Tcase (  $^{\circ}\!\mathbb{C}$  )



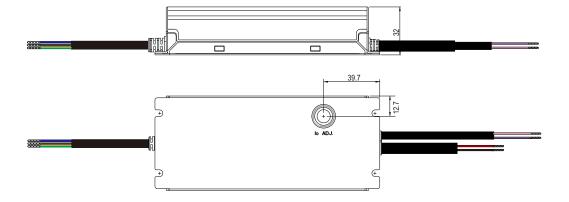




## ※ AB-Type



• (tc): Max. Case Temperature



# ■ Recommend Mounting Direction



## **■ INSTALLATION MANUAL**

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