



















## Features

- Wide input range 100~305VAC( Class I )
- Full power output at 70~100% Constant power mode operation
- Metal case with IP67, suitable for outdoor application
- LVLE(H type), Class 2(24V) power unit
- 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
- Comply with UL Class P
- 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

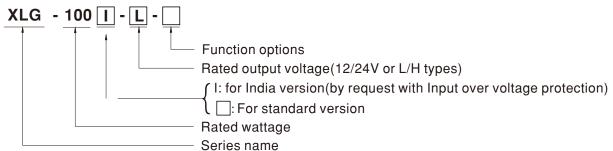
MW Search: https://www.meanwell.com/serviceGTIN.aspx

File Name:XLG-100-SPEC 2024-10-11

# Description

XLG-100 series is a 100W LED AC/DC driver featuring the constant power mode.XLG-100 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 8000mA. Thanks to the high efficiency up to 92%, 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-100 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 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
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

Downloaded from Arrow.com.

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



#### **SPECIFICATION**

MODEL		XLG-100□-12-□	XLG-100□-24-□				
	DC VOLTAGE	12V	24V				
OUTPUT	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8~ 24V				
	RATED CURRENT (Default)	8A	4A				
	RATED POWER	96W	96W				
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mVp-p				
	CURRENT ADJ RANGE	Adjustable for A-Type only (via the built-in potentiometer)					
		4 ~ 8A	2~4A				
	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.)	12ms/ 230VAC 12ms/ 115VAC					
INPUT	VOLTAGE RANGE Note.5	100 ~ 305VAC					
		(Please refer to "STATIC CHARACTERISTIC" section)					
	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%/115VAC,230VAC;	<u> </u>				
	EFFICIENCY (Typ.)	92%	92%				
	AC CURRENT	1.1A/115VAC 0.5A/230VAC 0.42A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured at 50% Ipeak) at 230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	8units (circuit breaker of type B) / 14 units (	circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT						
		<pre>&lt;<p>&lt;0.75mA / 277VAC</p></pre>					
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W(for standard version)					
	POWER CONSUMPTION						
	OVER CURRENT	110 ~ 160% for CV type, 95~108% for other type					
	OLIODE OIDOUIT	CV-type: Hiccup mode only; Other type: Hiccup or constant current limiting; Recovers automatically after fault condition is removed  CV-type: Hiccup mode only; Other type: Hiccup or constant current limiting; Recovers automatically after fault condition is removed					
ROTECTION	SHORT CIRCUIT		, ,	ally after fault condition is removed			
KOTECTION	OVER VOLTAGE	13.5 ~ 18V 27 ~ 34V					
		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 removed.					
	INPUT OVER VOLTAGE	Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-100I series)					
	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	Treate vo reini en trone socion,				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
NVIRONMENT		-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	, ,	Pmin_each along X_Y_7 axes				
		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;					
	SAFETY STANDARDS Note.7	GB19510.1, GB19510.14; EAC TP TC 004;	J61347-1(H29), J61347-2-13(H29), KC61347-1, KC	61347-2-13,			
		IS15885(Part2/Sec13)(for XLG-100I type on	7 approved				
		I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC					
	WITHSTAND VOLTAGE	I/F-U/F.3./3KVAC I/F-FG.ZKVAC U/I	P-FG:1.5KVAC				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500					
				Test Level/Note			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500	VDC / 25°C / 70% RH	Test Level/Note			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter	VDC / 25°C / 70% RH Standard				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15),GB/T 17743				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	VDC / 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	 Class C @load≥50%			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS_EN/EN61547 Parameter	VDC / 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	Class C @load≥50% Test Level/Note			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	VDC / 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	 Class C @load≥50%			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS_EN/EN61547 Parameter	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard	Class C @load≥50% Test Level/Note			
	ISOLATION RESISTANCE	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	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3			
	ISOLATION RESISTANCE  EMC EMISSION	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	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3			
	ISOLATION RESISTANCE  EMC EMISSION	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	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-6  BS EN/EN61000-4-6	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(6K/10K option) Level 3			
EMC SAFETY &	ISOLATION RESISTANCE  EMC EMISSION	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	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN65015(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	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(6K/10K option			
	ISOLATION RESISTANCE  EMC EMISSION	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	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-6  BS EN/EN61000-4-6	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(6K/10K option Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
	EMC EMISSION  EMC IMMUNITY	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	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  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	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(6K/10K option) Level 3 Level 4			
AFETY &	EMC EMISSION  EMC IMMUNITY	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 2782.6K hrs min. Telcordia SR-332 (Belloc	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  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	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(6K/10K option Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
	EMC EMISSION  EMC IMMUNITY	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	VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN55015(CISPR15) , GB/T 17743  BS EN/EN61000-3-2 , GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  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	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(6K/10K option) Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 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". (Except for CV-type)

  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/CS is available for CV-type. XLG-1001 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 Tease, particularly (© point (or TMP, per DLC), is about 80°C or less.

  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.

  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 contac



#### **SPECIFICATION**

MODEL		XLG-100L	XLG-100 ☐-H-				
	RATED CURRENT (Default)	700mA	2100mA				
	RATED POWER	100W	100W				
	CONSTANT CURRENT REGION	71 ~ 142V	27 ~ 56V				
	FULL POWER CURRENT RANGE	700~1050mA	1750~2780mA	1750~2780mA			
ОИТРИТ	OPEN CIRCUIT VOLTAGE (max.)	149V	60V	60V			
	CURRENT ADJ. RANGE	350~1050mA	875~2780mA	875~2780mA			
	CURRENT RIPPLE	3.0%(@rated current)					
	CURRENT TOLERANCE	±5%					
	SET UP TIME	500ms/230VAC, 1200ms/115VAC					
INPUT	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC					
	VOLIAGE NAME:	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	PF ≥ 0.97 / 115VAC, PF ≥ 0.95 / 230VAC, PF ≥ 0.92 / 277VAC at full load					
		(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 OF THE PROPERTY OF					
	EFFICIENCY (Typ.)	92.5%	91%				
	AC CURRENT (Typ.)	1.1A / 115VAC 0.5A / 230VAC 0.42A /					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300μs measured at 50% lpeak) at 230VAC; Per NEMA 410					
	MAX. NO. of PSUs on 16A	8 unit(circuit breaker of type B) / 14 units(circuit breaker of type C) at 230VAC					
	CIRCUIT BREAKER						
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY	Standby power consumption <0.5W for AB-Type(	Dimming OFF)(for standard version)				
	POWER CONSUMPTION	200	3 - /( /				
	OVER POWER	105 ~ 150%					
		Hiccup mode, recovers automatically after fault condition is removed					
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed					
ROTECTION	OVER VOLTAGE	160~220V 66~90V					
		Shut down output voltage, re-power on to recover					
	INPUT OVER VOLTAGE			ecovers automatically after fault condition is removed			
	INI OT OVER VOLIAGE	Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-100I series)					
	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℃					
NVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min.	each along X, Y, Z axes				
		UL8750(type"HL"), CSA C22.2 No. 250.13-12; I		•			
	SAFETY STANDARDS Note.7	GB19510.1, GB19510.14; EAC TP TC 004; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13,					
		IS15885(Part2/Sec13)(for XLG-100I 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					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC					
		Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743				
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743				
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3				
		Voltage Flicker BS EN/EN61547					
		Voltage Flicker	BS EN/EN61000-3-3 Standard	Test Level/Note			
		Voltage Flicker BS EN/EN61547					
		Voltage Flicker BS EN/EN61547 Parameter	Standard	Test Level/Note			
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD	Standard BS EN/EN61000-4-2	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3			
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3			
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option			
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	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 Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option			
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	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	Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			
DTHERS		Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	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	Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods			

#### NOTE

- Please refer to "DRIVING METHODS OF LED MODULE".

- 1. Ali parameters NOT specially menutored are measured at 20MC input; rated current and 25 °C of amoient 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-1001 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 80°C or less.

  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.

  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

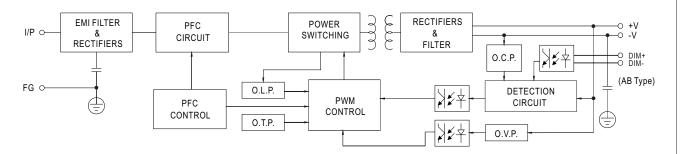
  14. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.

  15. For A/AB type need to consider build in using to comply with Type HL asplication. formation, please refer to https://ww



#### ■ BLOCK DIAGRAM

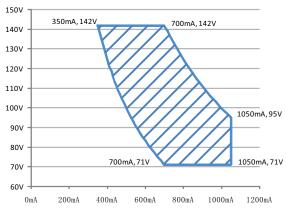
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### ■ DRIVING METHODS OF LED MODULE

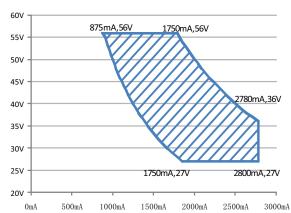
#### **%** I-V Operating Area

# 



Recommend Performance Region

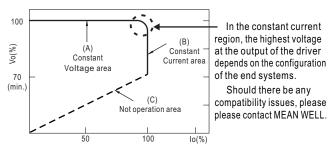
#### 



Recommend Performance Region

### **◎ XLG-100-12,24**

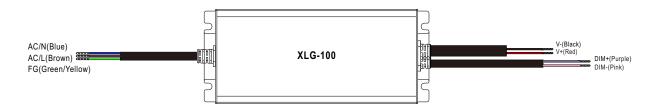
\*\* This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs, except for CV-type.



Typical output current normalized by rated current (%)

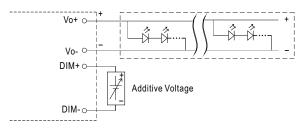


### **■ DIMMING OPERATION**

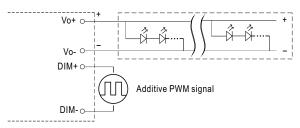


#### ※ 3 in 1 dimming function (for AB-Type)

- 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.)

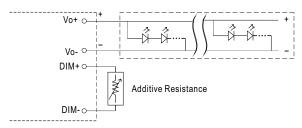


"DO NOT connect "DIM- to Vo-"

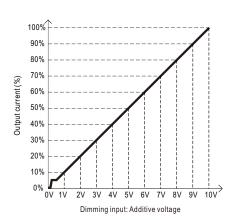


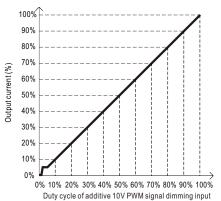
"DO NOT connect "DIM- to Vo-"

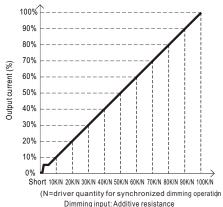
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





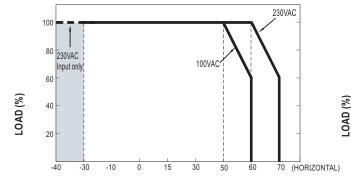


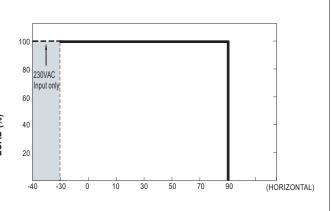
Note : 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%

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



## ■ OUTPUT LOAD vs TEMPERATURE





Tcase (°C)

AMBIENT TEMPERATURE, Ta (°C)

If XLG-100 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).

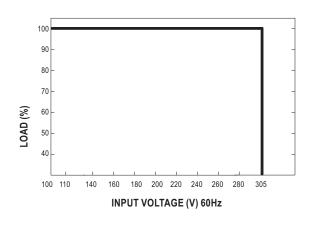
Below 110VAC@-30°C may has restart situation within 5s after power-on.

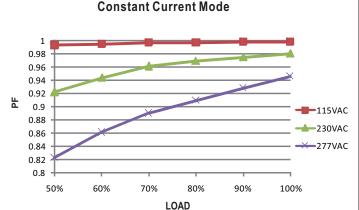
## ■ STATIC CHARACTERISTIC

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

※ Tcase at 75°

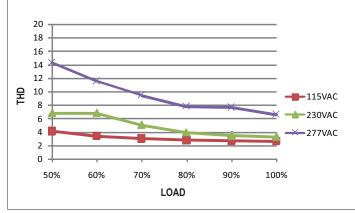
C





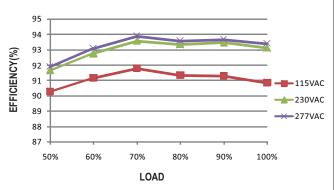
## ■ TOTAL HARMONIC DISTORTION (THD)

#### ※ XLG-100-L Model, Tcase at 75 °C



#### **■** EFFICIENCY vs LOAD

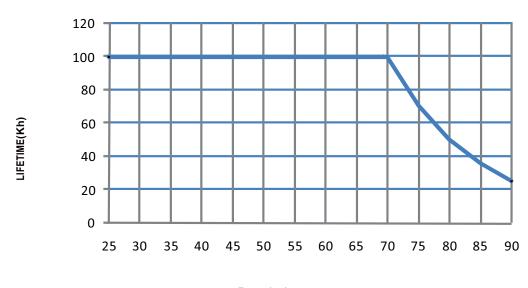
XLG-100 series possess superior working efficiency that up to 92.5% can be reached in field applications.



File Name:XLG-100-SPEC 2024-10-11

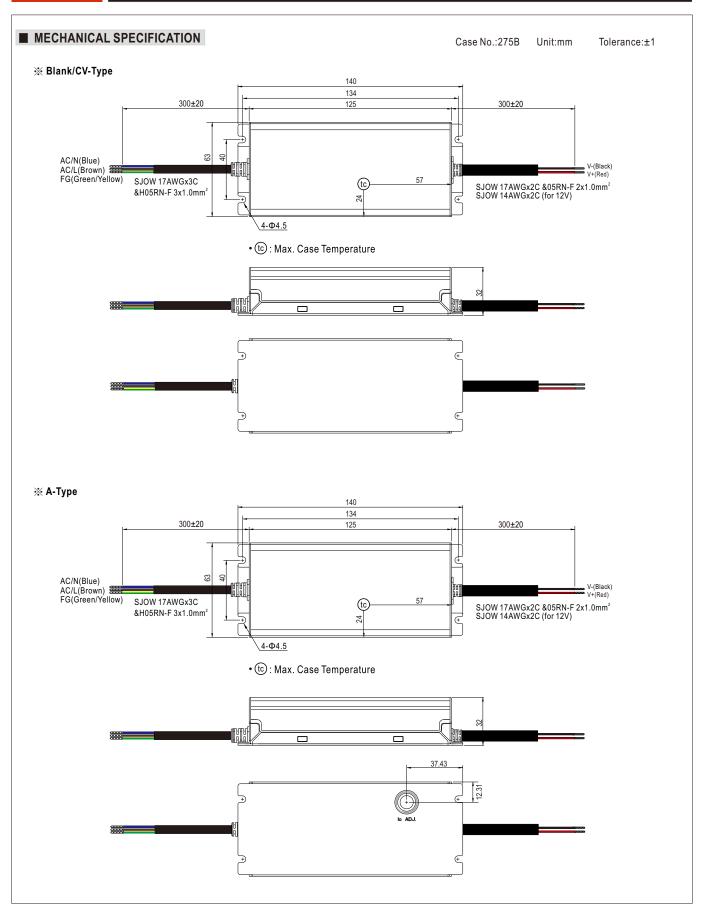


# ■ LIFE TIME



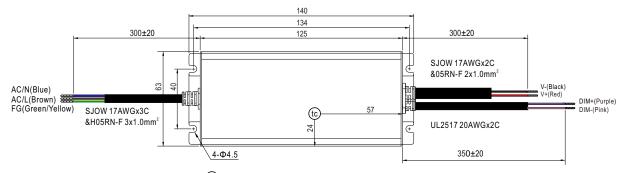
Tcase (°€)



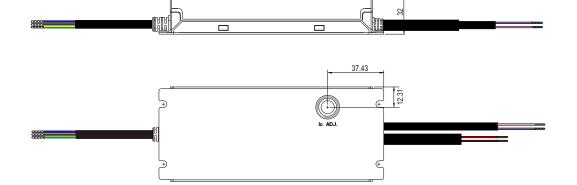




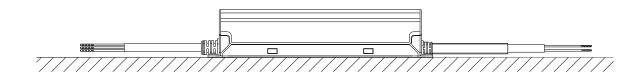
## ※ AB-Type



• tc : Max. Case Temperature



## ■ Recommend Mounting Direction



## **■ INSTALLATION MANUAL**

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