



100W Constant Power Mode LED Driver

XLG-100











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

Description

Applications

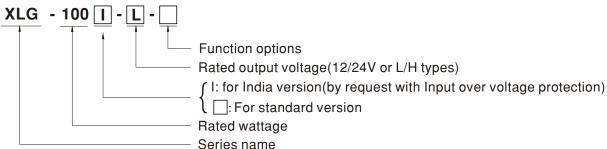
- · Skyscraper lighting
- · Street lighting
- · Floodlight Lighting
- Stage lighting
- · Fishing lighting
- · Horticulture lighting
- Bay lighting
- DMX power supply
- Type HL for use in class I, Division 2

GTIN CODE

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

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 $^{\circ}$ 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-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	ank lo and Vo fixed. (For harsh environment)			
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-100□-12-□	XLG-100□-24-□				
ŀ	DC VOLTAGE	12V	24V				
	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				
	,	Adjustable for A-Type only (via the built-in potentiometer)					
	CURRENT ADJ RANGE	4 ~ 8A 2~4A					
OUTDUT	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%				
OUTPUT	LINE REGULATION	±0.5%					
	LOAD REGULATION	±0.5% ±0.5% ±1%					
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC					
	HOLD UP TIME (Typ.)	12ms/ 230VAC 12ms/ 115VAC					
	TIOLD OF TIME (Typ.)	100 ~ 305VAC 142 ~ 431VDC					
	VOLTAGE RANGE Note.5						
	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					
NPUT	EFFICIENCY (Typ.)	92%	92%				
NI OI	AC CURRENT	1.1A / 115VAC 0.5A / 230VAC 0.42A/277					
			-				
	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 (cir	rcuit breaker of type C) at 230VAC				
		40.7F A / 277\/AC					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W(for s	tandard 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					
ROTECTION	OVERVOLTAGE	13.5~18V 27~34V					
	OVER VOLTAGE	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	±0.03%/°C (0 ~ 60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72m	nin. 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; 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					
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-		,			
	ISOLATION RESISTANCE						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI		Tant Laval/Nata			
			tandard	Test Level/Note			
			S EN/EN55015(CISPR15) ,GB/T 17743				
	EMC EMISSION		S EN/EN55015(CISPR15), GB/T 17743				
	EWIC EWISSION						
	EWIC EMISSION	Harmonic Current BS	S EN/EN61000-3-2 , GB17625.1	Class C @load≥50%			
≣мс	EWIC EMISSION	Harmonic Current BS Voltage Flicker BS					
	EMIC EMISSION	Harmonic Current BS	S EN/EN61000-3-2 , GB17625.1	Class C @load≥50%			
	EMC EMISSION	Harmonic Current BS Voltage Flicker BS BS EN/EN61547	S EN/EN61000-3-2 , GB17625.1	Class C @load≥50%			
	EMC EMISSION	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3	Class C @load≥50%			
	EMCEMISSION	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3	Class C @load≥50% Test Level/Note			
	EMC IMMUNITY	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
		Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3			
		Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3			
		Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S 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 opt			
		Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S 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 opt Level 3 Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods			
	EMC IMMUNITY	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-8 S EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opti Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods			
SAFETY &	EMC IMMUNITY	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-8 S EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opti Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods			
SAFETY &	EMC IMMUNITY MTBF DIMENSION	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-8 S EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opti Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods			
OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-8 S EN/EN61000-4-11 re); 276.4Khrs min. MIL-HDBK-217	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 opti Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods F (25°C)			
EMC SAFETY & OTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-8 S EN/EN61000-4-11 Te); 276.4Khrs min. MIL-HDBK-217	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opti Level 3 Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods F (25℃)			
DTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-8 S EN/EN61000-4-11 Te); 276.4Khrs min. MIL-HDBK-217	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opti Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, 39% interruptions 250 periods F (25℃)			
DTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance: includes set up to 5. De-rating may be needed un	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-6 S EN/EN61000-4-11 re); 276.4Khrs min. MIL-HDBK-217 and current and 25°C of ambient temperature terminated with a 0.1uf & 47uf p. CHARACTERISTIC" sections for details.	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opti Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods F (25°C) re. arallel capacitor.			
DTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance: includes set up to 5. De-rating may be needed un 6. Length of set up time is meas	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 (Bellcordia SR-332 (Magnetic SR-332) (Bellcordia SR-332) (B	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-11 re); 276.4Khrs min. MIL-HDBK-217 rd current and 25°C of ambient temperature pair-wire terminated with a 0.1uf & 47uf pc CHARACTERISTIC" sections for details.	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opt Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods F (25°C) re. arallel capacitor.			
DTHERS	EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance: includes set up to 5. De-rating may be needed une 6. Length of set up time is meas 7. Input voltage only for XLG-1G 8. The driver is considered as a	Harmonic Current	S EN/EN61000-3-2 , GB17625.1 S EN/EN61000-3-3 tandard S EN/EN61000-4-2 S EN/EN61000-4-3 S EN/EN61000-4-4 S EN/EN61000-4-5 S EN/EN61000-4-6 S EN/EN61000-4-11 re); 276.4Khrs min. MIL-HDBK-217 and current and 25°C of ambient temperature terminated with a 0.1uf & 47uf p. CHARACTERISTIC" sections for details. er may lead to increase of the set up time ter. with final equipment. Since EMC perform	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K opt Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods F (25℃) re. arallel capacitor.			

- complete installation, the limit equipment manufacturers must re-quality term of 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.

- 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 File Name:XLG-100-SPEC 2024-03-12



SPECIFICATION

MODEL		XLG-100L	XLG-100H-]			
	RATED CURRENT (Default)	700mA	2100mA				
	RATED POWER	100W	100W				
	CONSTANT CURRENT REGION	71 ~ 142V	27 ~ 56V				
	FULL POWER CURRENT RANGE	700~1050mA	1750~2780mA				
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)		60V				
	CURRENT ADJ. RANGE	350~1050mA	875~2780mA				
	CURRENT RIPPLE	3.0%(@rated current)					
	CURRENT TOLERANCE	±5%					
	SET UP TIME	500ms/230VAC, 1200ms/115VAC					
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC					
	EDECHENOV DANCE	(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 (THD)" section					
INPUT	EFFICIENCY (Typ.)	92.5% 91%					
1141 01	AC CURRENT (Typ.)	92.5% 91% 1.1A / 115VAC 0.5A / 230VAC 0.42A / 277VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured a					
	MAX. NO. of PSUs on 16A	, ,					
	CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units(ci	ircuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY						
	POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)					
		105 ~ 150%					
	OVER POWER	Hiccup mode, recovers automatically after fault condition is removed					
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, r		n is removed			
		160 ~ 220V	66 ~ 90V				
PROTECTION	OVER VOLTAGE	Shut down output voltage, re-power on to recover					
	INDUT OVER VOLTAGE	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 ~ +90°C (Please refer to "OUTP	UT LOAD vs TEMPERATURE" section)				
ENVIRONMENT :	MAX. CASE TEMP.	Tcase=+90°C					
	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 7					
	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; 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					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50	0VDC / 25°C / 70% RH				
EMC		Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15), GB/T 17	743			
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15), GB/T 17	743			
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3				
		BS EN/EN61547					
		Parameter	Standard	Test Level/Note			
	EMC IMMUNITY	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(6K/10K option			
		Conducted	BS EN/EN61000-4-6	Level 3			
		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	2782.6K hrs min. Telcordia SR-332 (Bellcore); 276.4Khrs min. MIL-HDBK-217F (25℃)					
OTHERS	DIMENSION	140*63*32mm (L*W*H)					
	PACKING	0.58Kg;24pcs /15Kg /0.85CUFT					
NOTE	2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance : includes set up tol 5. De-rating may be needed und 6. Length of set up time is meas 7. Input voltage only for XLG-10 8. The driver is considered as a complete installation, the final	becially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. NG METHODS OF LED MODULE". asured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. at up tolerance, line regulation and load regulation. Jed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. ALG-100 I series, and I series without UL/CSA certificate. As a component that will be operated in combination with final equipment. Since EMC performance will be affected by the he final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Neww.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ure derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).					

Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
 This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to) point (or TMP, per DLC), is about 80°C or less.
 Products sourced from the Americas regions may not have the PSE/CCC/BIS/KC logo. Please contact your MEAN WELL sales for more information.
 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
 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.

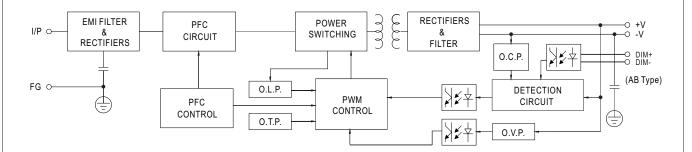
X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

File Name:XLG-100-SPEC 2024-03-12



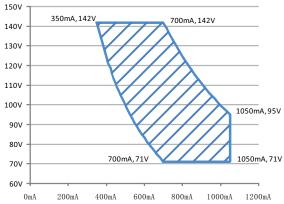
■ BLOCK DIAGRAM

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

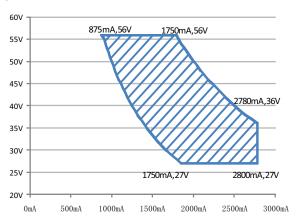


■ DRIVING METHODS OF LED MODULE

% I-V Operating Area

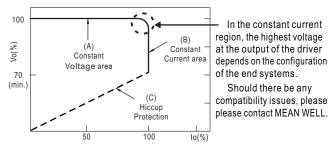


Recommend Performance Region



Recommend Performance Region

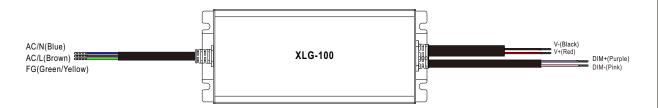
This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

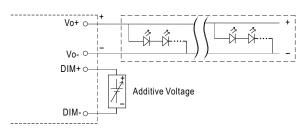


■ DIMMING OPERATION



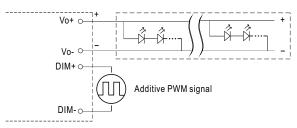
※ 3 in 1 dimming function (for AB-Type)

- 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 μ A (typ.)



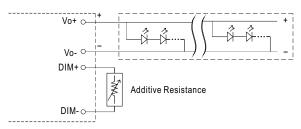
"DO NOT connect "DIM- to Vo-"

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

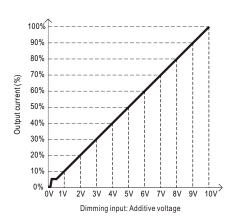


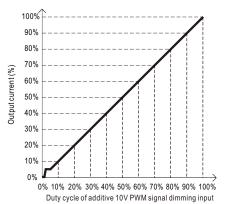
"DO NOT connect "DIM- to Vo-"

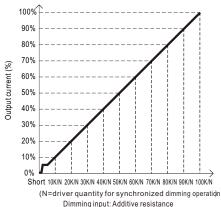
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





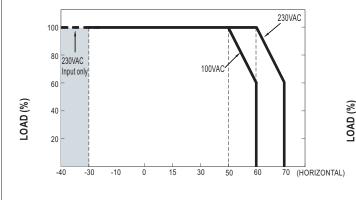


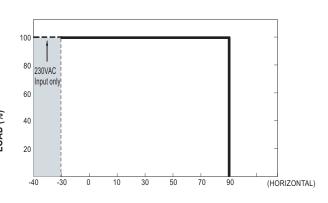
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% I out <8%.

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



■ OUTPUT LOAD vs TEMPERATURE





AMBIENT TEMPERATURE, Ta (°C)

Tcase (°C)

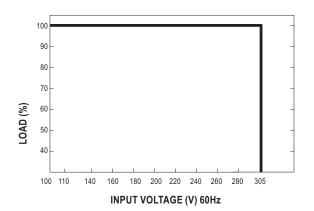
If XLG-100 operates in Constant Current mode with the rated current the maximum workable Ta is $60\,^{\circ}\mathrm{C}$ (Typ. 230VAC) or $50\,^{\circ}\mathrm{C}$ (Typ. 100VAC) Below 110VAC@ -30°C may retry to 2nd setup

■ STATIC CHARACTERISTIC

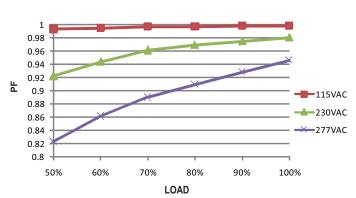
■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

C



Constant Current Mode

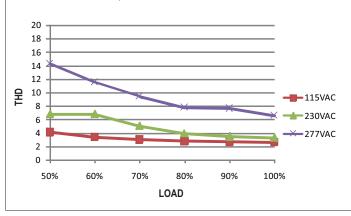


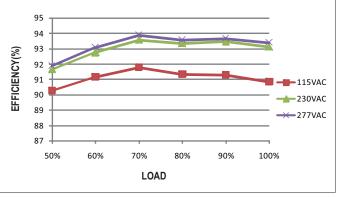
■ TOTAL HARMONIC DISTORTION (THD)

■ EFFICIENCY vs LOAD

※ XLG-100-L Model, Tcase at 75℃

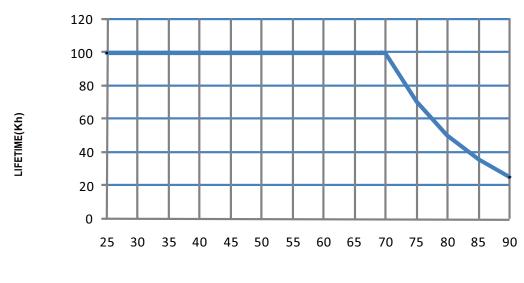
XLG-100 series possess superior working efficiency that up to 92.5% can be reached in field applications. ※ XLG-100-L Model. Tcase at 75°C





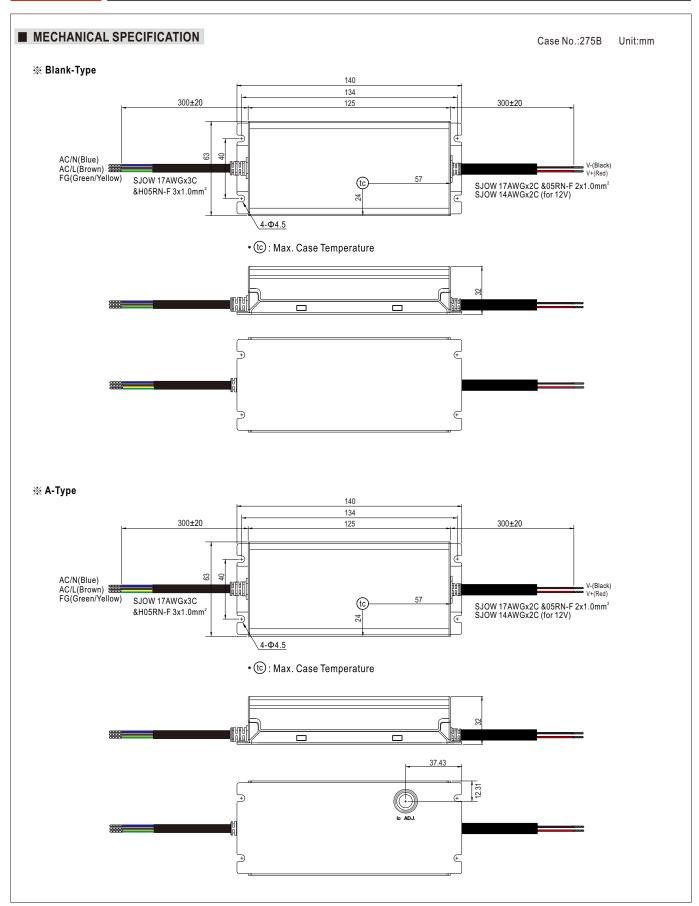


■ LIFE TIME



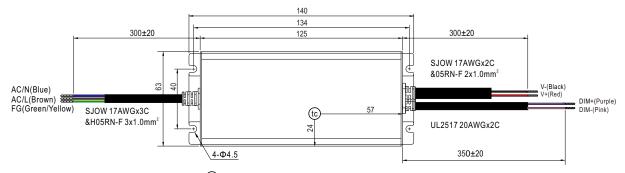
Tcase (°€)



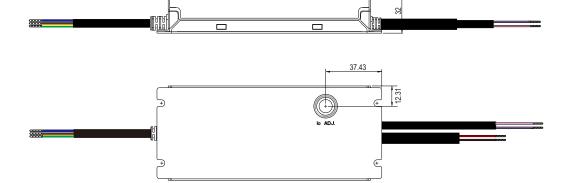




※ AB-Type



• tc : Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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