





#### 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
- Life time >50,000 hrs. and 5 years warranty

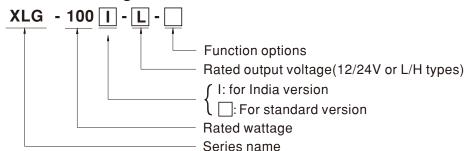
# Applications

- 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

## Description

XLG-100 series is a 100W LED AC/DC driver featuring the constant power mode. XLG-100 operates from  $100{\sim}305$ VAC 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  $40{\circ}{\circ}{\sim}+90{\circ}{\circ}{\circ}$  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/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both users and luminaire system during installation.

### Model Encoding



Type	Function	Note
Blank	Io and Vo fixed. (For harsh environment)	By request
Α	lo adjustable via built-in potentiometer	In Stock
AB	Io adjustable via built-in potentiometer +3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock

Note: 12V and 24V models without the AB type



#### **SPECIFICATION**

MODEL		XLG-100□-12-□		XLG-100□-24-□					
DC VOLTAGE		12V		24V					
	CONSTANT CURRENT REGION Note.2	8.4~ 12V		16.8~ 24V					
	RATED CURRENT	8A		4A					
	RATED POWER	96W		96W					
	RIPPLE & NOISE (max.) Note.3	150mVp-p		240mVp-p					
	CURRENT AR LRANGE	Adjustable for A/AB-Type only (via the built-in potentiometer)							
	CURRENT ADJ RANGE	4 ~ 8A		2~4A					
OUTPUT	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, 10	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC						
	HOLD UP TIME (Typ.)	12ms/ 230VAC 12ms/ 115VAC							
	VOLTACE DANCE	100 ~ 305VAC 142 ~ 431VDC							
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTE	ERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR	$PF \ge 0.97/115VAC$ , $PF \ge 0.95/230VAC$ , $PF \ge 0.92/277VAC$ @full load							
	TOTAL HARMONIC DISTORTION	THD<10%(@load≧50%/115VC,230	)VAC; @load≧75%/277VA	C)					
INPUT	EFFICIENCY (Typ.)	92%		92%					
	AC CURRENT	1.1A / 115VAC 0.5A / 230VAC (	0.42A/277VAC						
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs me	asured at 50% Ipeak) at 23	0VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A	8units (circuit breaker of type B) / 14	units (circuit breaker of tu	ne C) at 230\/AC					
	CIRCUIT BREAKER	outilits (circuit breaker of type b) / 14	units (circuit breaker of ty)	Je 0) at 200 vA0					
	LEAKAGE CURRENT	<0.75mA / 277VAC							
	NO LOAD	No load power consumption <0	5W/for standard version	.)					
	POWER CONSUMPTION	No load power consumption <0.5W(for standard version)							
	OVED CURRENT	95~108%							
	OVER CURRENT	Hiccup mode or Constant current lim	iting, recovers automaticall	y after fault condition is	s removed				
	SHORT CIRCUIT	Hiccup mode or Constant current lim	iting, recovers automaticall	y after fault condition is	removed				
PROTECTION	OVERVOLTACE	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)							
		can survive input voltage stress of 440Vac for 48 hours							
	OVER TEMPERATURE	Hiccup mode, recovers automatical	Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "	OUTPUT LOAD vs TEMPE	:RATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C							
	WORKING HUMIDITY	20 ~ 95% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)							
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period	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 EN61347-1, EN61347-2-13 independent, EN62384;							
	SAFFTY STANDARDS	GB19510.1, GB19510.14; EAC TP TC 004; IP67 approved							
	SAFETY STANDARDS	GB19510.1, GB19510.14; EAC TP T			13 Independent, EN62384;				
	SAFETY STANDARDS WITHSTAND VOLTAGE	GB19510.1, GB19510.14; EAC TP To I/P-O/P:4.2KVAC	C 004; IP67 approved		13 independent, EN62384;				
			C 004; IP67 approved C O/P-FG:1.5KVAC		13 independent, EN62384;				
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA	C 004; IP67 approved C O/P-FG:1.5KVAC		Test Level/Note				
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm	C 004; IP67 approved  C O/P-FG:1.5KVAC  ns / 500VDC / 25°C / 70% R	RH					
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm  Parameter	C 004; IP67 approved  C O/P-FG:1.5KVAC  ns / 500VDC / 25°C / 70% R  Standard	RH 5)	Test Level/Note				
	WITHSTAND VOLTAGE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R Standard EN55015(CISPR1:	RH 5)	Test Level/Note				
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated	C 004; IP67 approved  C O/P-FG:1.5KVAC  ns / 500VDC / 25°C / 70% R  Standard  EN55015(CISPR1:	RH 5)	Test Level/Note				
EMC SAFETY &	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard  EN55015(CISPR1: EN55015(CISPR1: EN61000-3-2	RH 5)	Test Level/Note Class C @load≥50%				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard  EN55015(CISPR1: EN55015(CISPR1: EN61000-3-2	RH 5)	Test Level/Note Class C @load≥50%				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547	C 004; IP67 approved  C O/P-FG:1.5KVAC  ns / 500VDC / 25°C / 70% R  Standard  EN55015(CISPR1:  EN55015(CISPR1:  EN61000-3-2  EN61000-3-3	RH 5)	Test Level/Note Class C @load≥50%				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter	C 004; IP67 approved  C O/P-FG:1.5KVAC  ns / 500VDC / 25°C / 70% R  Standard  EN55015(CISPR1:  EN55015(CISPR1:  EN61000-3-2  EN61000-3-3  Standard	RH 5)	Test Level/Note Class C @load≥50% Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard EN55015(CISPR1: EN61000-3-2 EN61000-3-3  Standard EN61000-4-2	RH 5)	Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard EN55015(CISPR1: EN61000-3-2 EN61000-3-3  Standard EN61000-4-2 EN61000-4-3	RH 5)	Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard EN55015(CISPR1: EN61000-3-2 EN61000-3-3  Standard EN61000-4-2 EN61000-4-3 EN61000-4-4	RH 5)	Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge	C 004; IP67 approved  C O/P-FG:1.5KVAC  ns / 500VDC / 25°C / 70% R  Standard  EN55015(CISPR1:  EN55015(CISPR1:  EN61000-3-2  EN61000-3-3  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-4  EN61000-4-5	RH 5)	Test Level/Note 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 optio				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard EN55015(CISPR1: EN55015(CISPR1: EN61000-3-2 EN61000-3-3  Standard EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6	RH 5)	Test Level/Note 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				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard EN55015(CISPR1: EN61000-3-2 EN61000-3-3  Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-8 EN61000-4-8	RH 5) 5)	Test Level/Note 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, >95% interruptions 250 periods				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	I/P-O/P:4.2KVAC I/P-FG:2.1KVA I/P-O/P, I/P-FG, O/P-FG:100M Ohm Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	C 004; IP67 approved C O/P-FG:1.5KVAC ns / 500VDC / 25°C / 70% R  Standard EN55015(CISPR1: EN61000-3-2 EN61000-3-3  Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-8 EN61000-4-8	RH 5) 5)	Test Level/Note 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, >95% interruptions 250 periods				

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

- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
  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 for XLG-100 I series
  8. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

  9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

  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



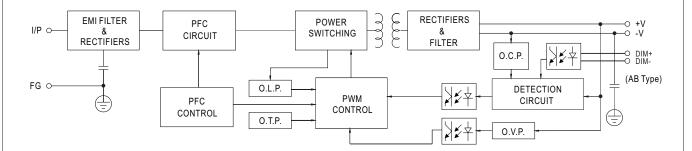
#### **SPECIFICATION**

MODEL		XLG-100 🗌 -L- 🗌		XLG-100 🔲-H- 🗌				
	RATED CURRENT	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						
	EDECUENOV 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)						
		THD< 10% (@ load \geq 50% at 115VAC/230VAC, @load \geq 75% at 277VAC)						
	TOTAL HARMONIC DISTORTION	THD< 10% (@ load ≥ 50% at 115VAC/23UVAC ,@load ≥ 75% at 277VAC)  Please refer to "TOTAL HARMONIC DISTORTION (THD)" section						
INPUT	EFFICIENCY (Typ.)	92.5% 91%						
01	AC CURRENT (Typ.)	92.5% 91% 1.1A / 115VAC 0.5A / 230VAC 0.42A / 277VAC						
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measu		: Per NEMA 410				
	MAX. NO. of PSUs on 16A	` .						
	CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 un	nits(circuit breaker of type (	C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	STANDBY	- OFFICIAL ETT FILE						
	POWER CONSUMPTION	Standby power consumption <0.5	W for AB-Type(Dimmin	g OFF)(for standard	version)			
		105 ~ 150%						
	OVER POWER	Hiccup mode, recovers automatically	after fault condition is remo	ved				
	SHORT CIRCUIT	Hiccup mode or Constant current limit	ing, recovers automatically	after fault condition is	removed			
		160 ~ 220V		66 ~ 90V				
DDOTECTION	OVER VOLTAGE	Shut down output voltage, re-power						
PROTECTION		320 ~ 390VAC (Shut down output volt	age when the input voltage	exceeds protection vo	oltage)			
	INPUT OVER VOLTAGE Note.7	can survive input voltage stress of 440Vac for 48 hours						
	OVER TEMPERATURE	Hiccup mode, recovers automatically						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+90°C						
ENVIRONMENT	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						
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384;						
	WITHETAND VOLTAGE	GB19510.1, GB19510.14; EAC T		90				
SAFETY &	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC		11				
EMC	ISOLATION RESISTANCE	Parameter	Standard	П	Toot Lovel/Note			
		Conducted	EN55015(CISPR15	\	Test Level/Note			
		Radiated	EN55015(CISPR15	•				
	EMC EMISSION	Harmonic Current	EN61000-3-2	7	Class C @load≥50%			
		Voltage Flicker	EN61000-3-2					
		EN61547	LN01000-3-3					
		Parameter	Standard		Test Level/Note			
		ESD	EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	EN61000-4-3		Level 3			
	EMC IMMUNITY	EFT/Burst	EN61000-4-4		Level 3			
		Surge	EN61000-4-5		4KV/Line-Line 6KV/Line-Earth(6K/10K option			
		Conducted	EN61000-4-6		Level 3			
		Magnetic Field	EN61000-4-8		Level 4			
		Voltage Dine and Interruptions	EN61000 4 11		>95% dip 0.5 periods, 30% dip 25 periods,			
		Voltage Dips and Interruptions	EN61000-4-11		>95% interruptions 250 periods			
	MTBF	1006.16K hrs min. Telcordia SR-33	2 (Bellcore); 276.37Kh	rs min. MIL-HDBK-2	17F (25°C)			
OTHERS	DIMENSION	140*63*32mm (L*W*H)						
	PACKING	0.58Kg;24pcs /15Kg /0.85CUFT						
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. Only for XLG-100 I series 8. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 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 (© point (or TMP, per DLC), is about 80°C or less.							
	complete installation, the fina 9. The ambient temperature de 10. Please refer to the warranty 11. This series meets the typical	rating of 3.5°C/1000m with fanless movestatement on MEAN WELL's website	odels and of 5°C/1000m we at http://www.meanwell.cooperation when Tcase, page 1	rith fan models for ope com articularly (tc) point (or	erating altitude higher than 2000m(6500ft).  TMP, per DLC), is about 80°C or less.			



#### ■ BLOCK DIAGRAM

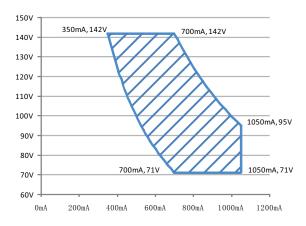
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### ■ DRIVING METHODS OF LED MODULE

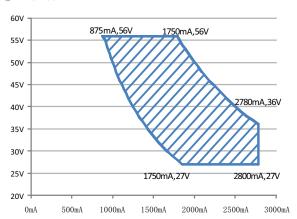
#### **%** I-V Operating Area

#### XLG-100-L



Recommend Performance Region

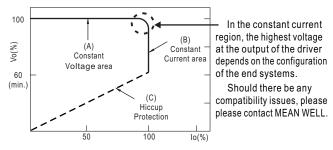
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Recommend Performance Region

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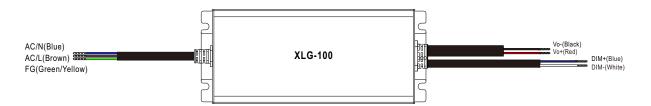
This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

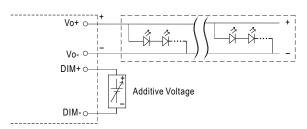


#### **■ DIMMING OPERATION**



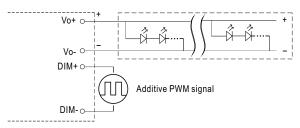
#### ※ 3 in 1 dimming function (for AB-Type)

- 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  $\mu$  A (typ.)



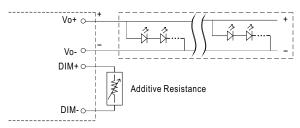
"DO NOT connect "DIM- to Vo-"

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

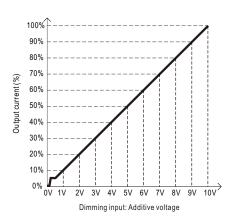


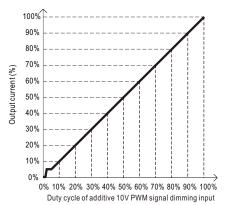
"DO NOT connect "DIM- to Vo-"

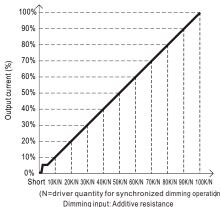
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





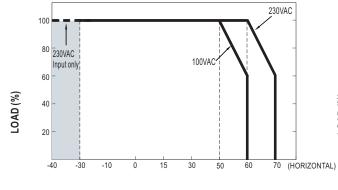


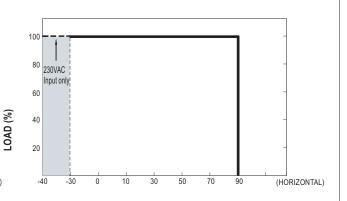
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

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





Tcase (°C)

AMBIENT TEMPERATURE,Ta (℃)

If XLG-100 operates in Constant Power mode with the rated current the maximum workable Ta is 60°C (Typ. 230VAC)

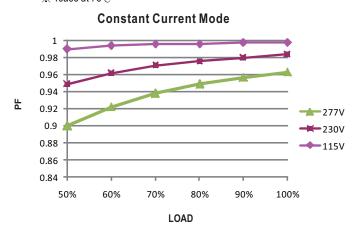
#### ■ STATIC CHARACTERISTIC

# 100 90 80 70 70 40 100 110 140 160 180 200 220 240 260 280 305 INPUT VOLTAGE (V) 60Hz

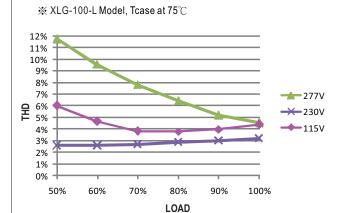
#### **■ POWER FACTOR (PF) CHARACTERISTIC**

※ Tcase at 75°

C



### ■ TOTAL HARMONIC DISTORTION (THD)

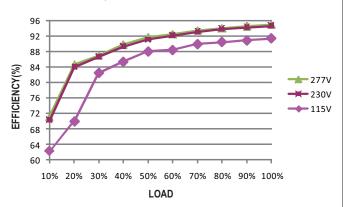


#### **■** EFFICIENCY vs LOAD

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

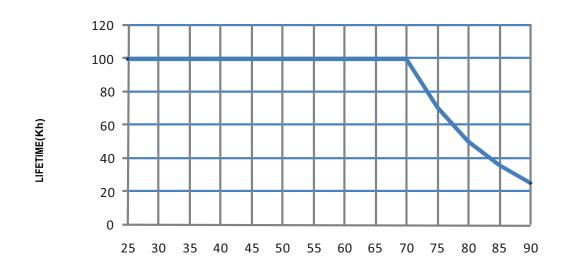
※ XLG-100-L Model, Tcase at 75

°C



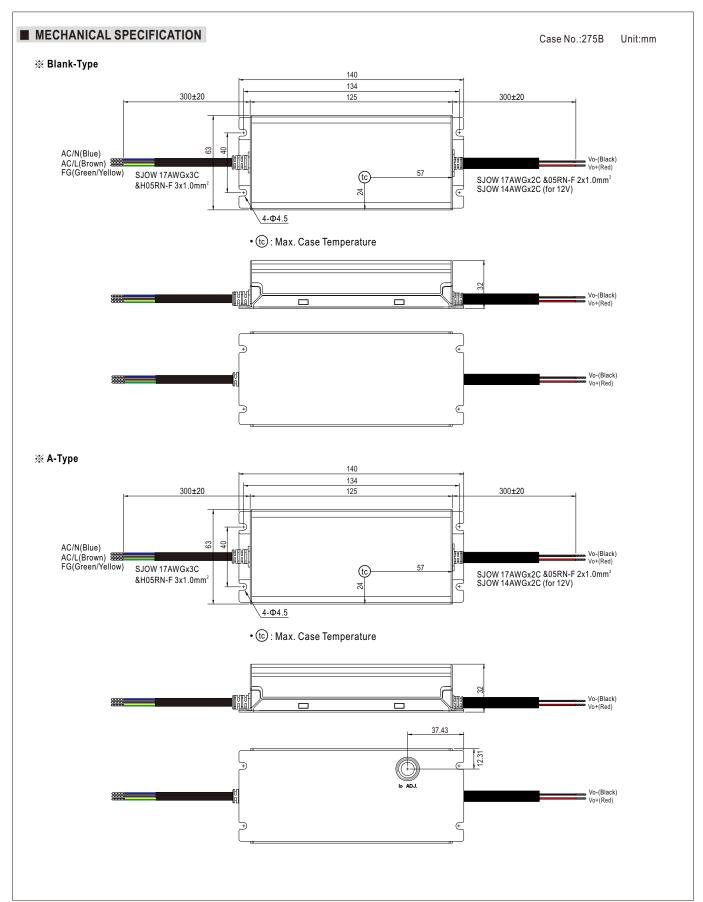


# ■ LIFE TIME



Tcase(°C)



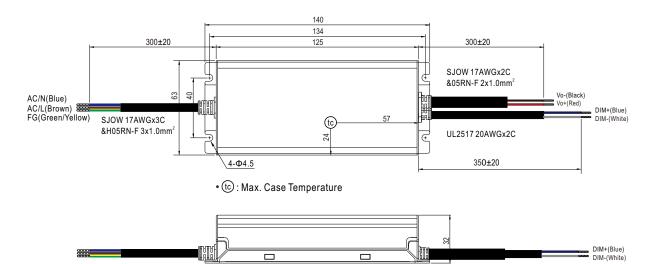


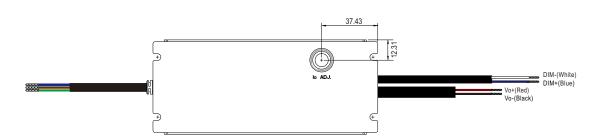


### ■ MECHANICAL SPECIFICATION

Case No.:275B Unit:mm

#### ※ AB-Type





#### **■ INSTALLATION MANUAL**

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