





SELV IP67 P & CRUS CRUS CO CB [III C













### 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

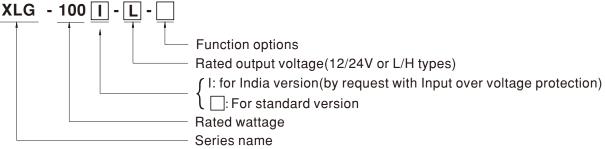
- · Skyscraper lighting
- · Street lighting
- · Floodlight Lighting
- Stage lighting
- Fishing lighting
- · Horticulture lighting
- · Bay lighting
- DMX power supply
- Type HL for use in class I, Division 2

### 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 - $40^{\circ}$ C ~+90 $^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XLG-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	Io and Vo fixed. (For harsh environment)	By request
Α	lo adjustable via built-in potentiometer	In Stock
АВ	Io adjustable via built-in potentiometer +3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock

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

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



#### SPECIFICATION

MODEL		XLG-100□-12-□		XLG-100□-24-□			
	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			240mVp-p			
	MITTEL WHOICE (Max.) Note.5	Adjustable for A-Type only (via the built-in potentiometer)					
	CURRENT ADJ RANGE	4 ~ 8A 2~4A					
	VOLTAGE TOLERANCE Note.4	±3.0%		±2.0%			
OUTPUT	LINE REGULATION	±0.5%		±0.5%			
		±2%		±1%			
	LOAD REGULATION						
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC					
	HOLD UP TIME (Typ.)	12ms/ 230VAC 12ms/ 115VAC					
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC					
	EDEQUENCY DANCE	(Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz	DE > 0.00/077\/A.0.06				
	POWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC,					
	TOTAL HARMONIC DISTORTION	THD<10%(@load≧50%/115VAC,230	VAC; @load≧75%/277V	,			
NPUT	EFFICIENCY (Typ.)	92%		92%			
	AC CURRENT	1.1A / 115VAC 0.5A / 230VAC 0.4	42A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs meas	sured at 50% Ipeak) at 23	0VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A	8units (circuit breaker of type B) / 14 u	nits (circuit breaker of tv	ne C) at 230VAC			
	CIRCUIT BREAKER	ourne (or our broaker or type 2), 11 a	- Consult broaker or ty				
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD	No load power consumption <0.5\	N/for standard version	.\			
	POWER CONSUMPTION	No load power consumption <0.30	Wildi Standard Version	')			
	01/50 01/5051/5	95 ~ 108%					
	OVER CURRENT	Hiccup mode or Constant current limiti	ng, recovers automatical	y after fault condition is	removed		
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed					
PROTECTION		13.5 ~ 18V		27 ~ 34V			
	OVER VOLTAGE	Shut down output voltage, re-power on to recover					
	INDUT OVER VOLTAGE N	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 "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					
LITTINONIIILITT	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period	for 72min each along X	V 7 aves			
	VIDICATION				1247 2 12 independent BS EN/EN62384		
	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					
	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 / 25°C / 70% F	RH			
		Parameter	Standard		Test Level/Note		
	EMC EMISSION	Conducted		ISPR15) ,GB/T 17743			
		Radiated	BS EN/EN55015(C	ISPR15) ,GB/T 17743			
		Harmonic Current	BS EN/EN61000-3	-2 . GB17625.1	Class C @load≥50%		
EMC.		Harmonic Current Voltage Flicker	BS EN/EN61000-3 BS EN/EN61000-3		Class C @load≥50%		
		Voltage Flicker	BS EN/EN61000-3 BS EN/EN61000-3		Class C @load≥50%		
		Voltage Flicker BS EN/EN61547	BS EN/EN61000-3				
		Voltage Flicker BS EN/EN61547 Parameter	BS EN/EN61000-3 Standard	-3	Test Level/Note		
		Voltage Flicker BS EN/EN61547 Parameter ESD	BS EN/EN61000-3  Standard  BS EN/EN61000-4	-2	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
	EMC IMMINITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	BS EN/EN61000-3   Standard   BS EN/EN61000-4   BS EN/EN61000-4	2 3	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	Standard BS EN/EN61000-4 BS EN/EN61000-4 BS EN/EN61000-4	3 2 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 Surge	Standard  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4	3 2 3 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  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4	3 2 3 4 5 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	Standard  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4	3 2 3 4 5 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 Level 3 Level 4		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	Standard  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4  BS EN/EN61000-4	3 2 3 4 5 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 Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,		
		Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	Standard  BS EN/EN61000-4	-2 -3 -4 -5 -6 -8	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		
SAFETY &	мтвғ	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	Standard  BS EN/EN61000-4	-2 -3 -4 -5 -6 -8	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K optic Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
SAFETY &	MTBF DIMENSION	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 140*63*32mm (L*W*H)	Standard  BS EN/EN61000-4	-2 -3 -4 -5 -6 -8	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		
OTHERS	MTBF DIMENSION PACKING	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 140*63*32mm (L*W*H) 0.58Kg;24pcs/15Kg /0.85CUFT	BS EN/EN61000-3  Standard  BS EN/EN61000-4  (Bellcore); 276.4Khrs	2 3 4 5 6 8 11 min. MIL-HDBK-217	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		
OTHERS	MTBF DIMENSION PACKING  1. All parameters NOT specially 2. Please refer to "DRIVING ME	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC in:THODS OF LED MODULE*.	Standard	-3 -2 -3 -4 -5 -6 -8 -11 min. MIL-HDBK-217	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 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, 295% interruptions 250 periods F (25°C)		
EMC SAFETY & OTHERS	MTBF DIMENSION PACKING  1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC intTHODS OF LED MODULE". at 20MHz of bandwidth by using a 12" t	Standard  BS EN/EN61000-4  Cout, rated current and 25°  wisted pair-wire terminate	-3 -2 -3 -4 -5 -6 -8 -11 min. MIL-HDBK-217	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 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, 295% interruptions 250 periods F (25°C)		
OTHERS	MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance: includes set up of 5. De-rating may be needed un	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  140*63*32mm (L*W*H)  0.58Kg;24pcs /15Kg /0.85CUFT  mentioned are measured at 230VAC inthOSO OF LED MODULE".  at 20MHz of bandwidth by using a 12" telerance, line regulation and load regulation low input voltages. Please refer to "S	Standard  BS EN/EN61000-4  Cout, rated current and 25° wisted pair-wire terminate ion.	-3 -2 -3 -4 -5 -6 -8 -11 min. MIL-HDBK-217 C of ambient temperatued with a 0.1uf & 47uf p	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 (F (25°C))  are. arallel capacitor.		
OTHERS	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	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  140*63*32mm (L*W*H)  0.58Kg;24pcs/15Kg/0.85CUFT  mentioned are measured at 230VAC in; THODS OF LED MODULE*.  THODS OF LED MODULE using a 12" telerance, line regulation and load regulation low input voltages. Please refer to "Surured at first cold start. Turning ON/OFF	Standard  BS EN/EN61000-4  Cout, rated current and 25° wisted pair-wire terminate ion.	-3 -2 -3 -4 -5 -6 -8 -11 min. MIL-HDBK-217 C of ambient temperatued with a 0.1uf & 47uf p	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 (F (25°C))  are. arallel capacitor.		
OTHERS	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 und 6. Length of set up time is meas 7. Input voltage only for XLG-fG 8. The driver is considered as a	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  140*63*32mm (L*W*H)  0.58Kg;24pcs /15Kg /0.85CUFT  mentioned are measured at 230VAC interior of the control of the contro	BS EN/EN61000-3  Standard  BS EN/EN61000-4  Cout, rated current and 25° wisted pair-wire terminate ion. Start C CHARACTERIST the driver may lead to incertificate. Dination with final equipment of the driver may lead to incertificate.	-2 -3 -4 -5 -6 -8 -11 min. MIL-HDBK-217 C of ambient temperatued with a 0.1uf & 47uf p	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 F (25°C)  are.  arallel capacitor.  a.  nance will be affected by the		
OTHERS	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 7. Input voltage only for XLG-10 8. The driver is considered as a complete installation, the fina	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  140*63*32mm (L*W*H)  0.58Kg;24pcs /15Kg /0.85CUFT  mentioned are measured at 230VAC in; THODS OF LED MODULE". at 20MHz of bandwidth by using a 12" terrance, line regulation and load regulation for increase and irrest cold start. Turning ON/OFF  01 series, and 1 series without UL/CSA	BS EN/EN61000-3  Standard  BS EN/EN61000-4  Cout, rated current and 25° wisted pair-wire terminate ion.  STATIC CHARACTERIST in the driver may lead to incertificate.  Enter the country of	-2 -3 -4 -5 -6 -8 -11 min. MIL-HDBK-217 C of ambient temperatued with a 0.1uf & 47uf p	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 F (25°C)  are.  arallel capacitor.  a.  nance will be affected by the		

- In earnoient temperature derating or 1.5 €/10∪0m with raine or 3 €/10∪0m with rain models for operating attitude higher than 20∪0m(b0∪0m 10. 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.

- 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-100 🔲 -L- 🗌	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				
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					
	FREQUENCY RANGE	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)					
	FREQUENCT RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	$PF \ge 0.97 / 115VAC$ , $PF \ge 0.95 / 230VAC$ , $PF \ge 0.92 / 277VAC$ at full load (Please refer to "Power Factor Characteristic" section)					
	TOTAL HARMONIC DISTORTION	THD<10% (@ load ≥ 50% at 115VAC/230VAC ,@ load ≥ 75% at 277VAC)  Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
INPUT	EFFICIENCY (Typ.)	92.5%	91%				
	AC CURRENT (Typ.)	1.1A / 115VAC 0.5A / 230VAC 0.	.42A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300μs measured a	t 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A	0 11/1 11 11 11 11 11					
	CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units(c	ircuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY	04	AD T (Dii OFF)/ftd				
	POWER CONSUMPTION	Standby power consumption <0.5W for	or AB-Type(Dimming OFF)(for stand	ard version)			
	OVED DOMED	105 ~ 150%					
	OVER POWER	Hiccup mode, recovers automatically after	fault condition is removed				
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, r	ecovers automatically after fault condition	n is removed			
DOTECTION	OVER VOLTAGE	160 ~ 220V	66 ~ 90V				
PROTECTION	OVER VOLIAGE	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					
	INPUT OVER VOLTAGE Note./	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)					
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	$-40 \sim +80^{\circ}$ C, $10 \sim 95\%$ 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				
				61347-2-13 independent, BS EN/EN62384;			
	SAFETY STANDARDS Note.7	GB19510.1, GB19510.14; EAC TP TC 004;					
	MUTUOTA ND VOLTA OF	IS15885(Part2/Sec13)(for XLG-100I type onl		/pe); IP67 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50	1	m			
		Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15) ,GB/T17				
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15) ,GB/T17				
		Harmonic Current	BS EN/EN61000-3-2 ,GB/T17625.1	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3				
	EMC IMMUNITY	BS EN/EN61547					
		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(6K/10K opt			
		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			
	MTDE	2702 CV has miss. Tales 15 OD 200 (2)					
OTUEDO	MTBF	2782.6K hrs min. Telcordia SR-332 (Bellcore); 276.4Khrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	140*63*32mm (L*W*H)					
	PACKING	0.58Kg;24pcs/15Kg/0.85CUFT					
		mentioned are measured at 230VAC input, r					

- 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 (to 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 contact MEAN WELL sales representative for details.

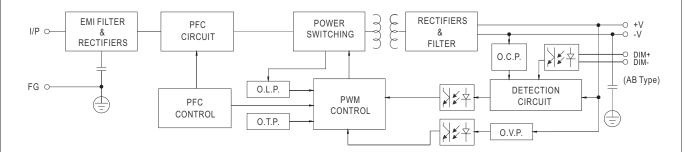
  File Name:XLG-100-SPEC 2023-09-08

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



#### ■ BLOCK DIAGRAM

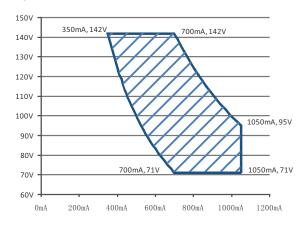
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



#### ■ DRIVING METHODS OF LED MODULE

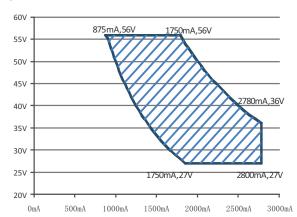
#### **%** I-V Operating Area

#### 



Recommend Performance Region

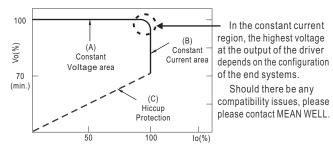
#### 



Recommend Performance Region

### 

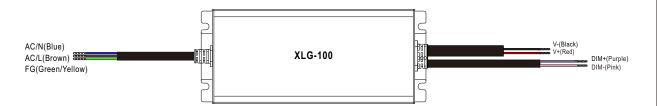
This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

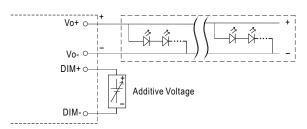


### **■ DIMMING OPERATION**



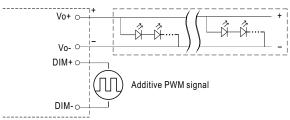
#### ※ 3 in 1 dimming function (for AB-Type)

- 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.)



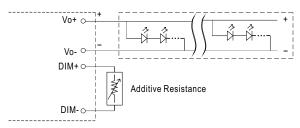
"DO NOT connect "DIM- to Vo-"

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

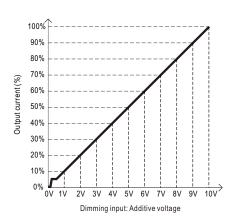


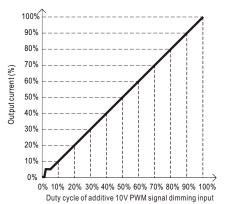
"DO NOT connect "DIM- to Vo-"

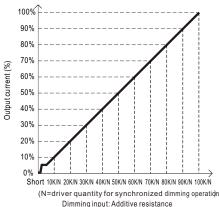
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





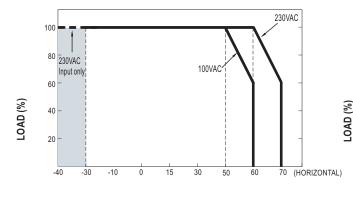


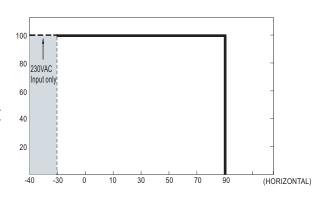
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% I out <8%.

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

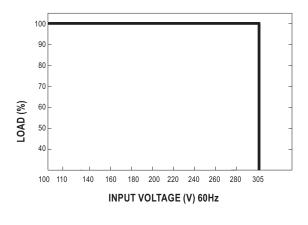
### ■ STATIC CHARACTERISTIC

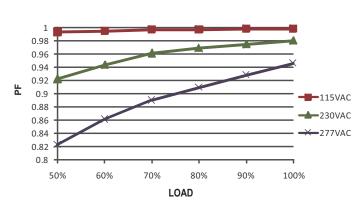
### ■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

C





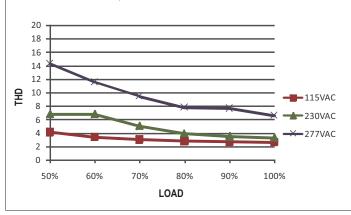


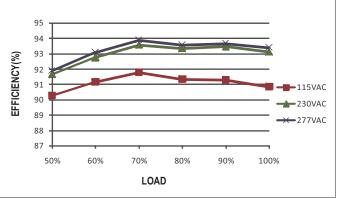
# ■ TOTAL HARMONIC DISTORTION (THD)

#### **■** EFFICIENCY vs LOAD

※ XLG-100-L Model, Tcase at 75℃

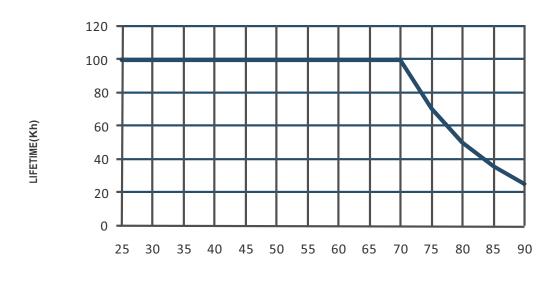
XLG-100 series possess superior working efficiency that up to 92.5% can be reached in field applications. ※ XLG-100-L Model. Tcase at 75°C





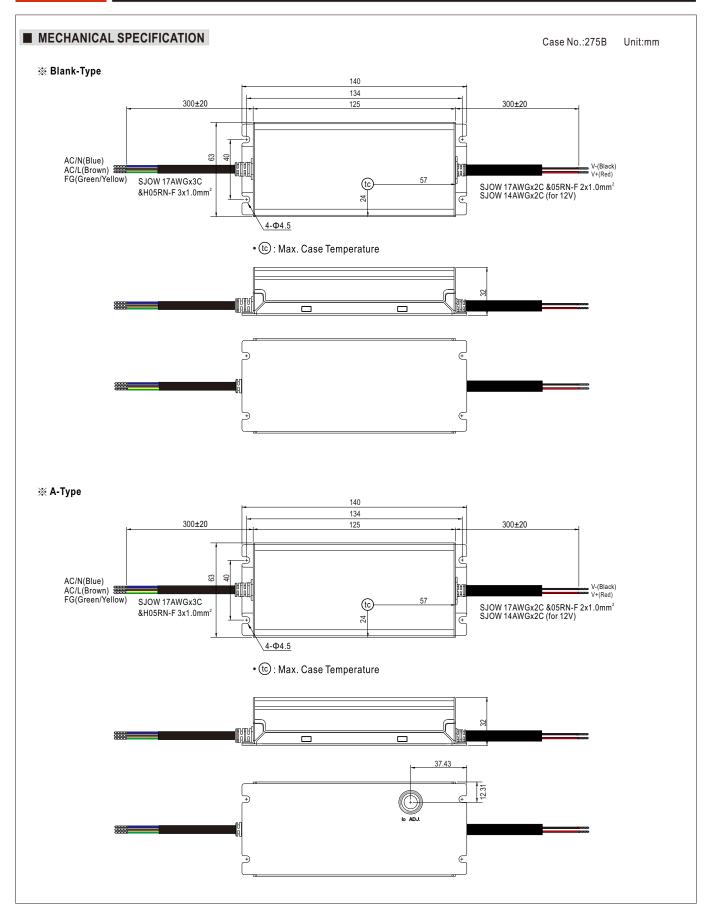


# ■ LIFE TIME



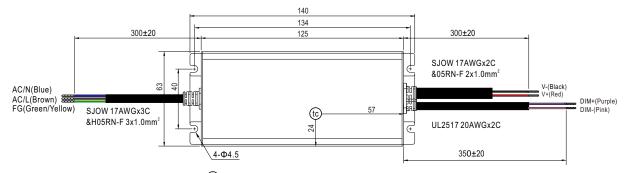
Tcase ( $^{\circ}\!\mathbb{C}$  )



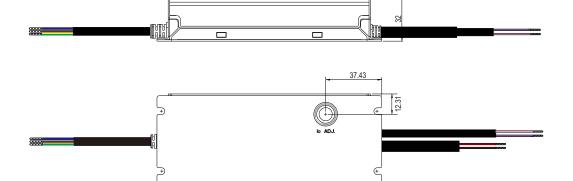




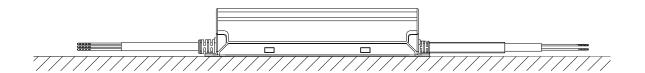
### ※ AB-Type



• tc : Max. Case Temperature



### ■ Recommend Mounting Direction



### **■ INSTALLATION MANUAL**

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