









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

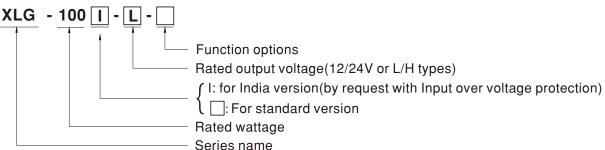
- Skyscraper lighting
- · Street lighting
- · Floodlight Lighting
- Stage lighting
- Fishing lighting
- Horticulture lighting
- · Bay lighting
- DMX power supply
- Type HL for use in class I, Division 2

■ 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°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



Туре	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: 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			
ОИТРИТ	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			
	KIFFLE & NOISE (IIIax.) Note.3	3 150mVp-p 240mVp-p Adjustable for A-Type only (via the built-in potentiometer)				
	CURRENT ADJ RANGE					
	VOLTA OF TOLERANDE	4 ~ 8A				
	VOLTAGE TOLERANCE Note.4					
	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		100 ~ 305VAC 142 ~ 431VDC				
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" 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%/115VAC,230VAC;				
			<u> </u>			
	EFFICIENCY (Typ.)	92%	92%			
	AC CURRENT	1.1A / 115VAC 0.5A / 230VAC 0.42A/2				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured	at 50% Ipeak) at 230VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A	8units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC				
	CIRCUIT BREAKER	Bunits (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	NO LOAD					
	POWER CONSUMPTION	No load power consumption <0.5W(for	standard version)			
		95 ~ 108%				
	OVER CURRENT	95 ~ 108% 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				
PROTECTION	OVER VOLTAGE	13.5 ~ 18V 27 ~ 34V				
	OVERVOEIAGE	Shut down output voltage, re-power on to recover				
	INPUT OVER VOLTAGE Note.7	220 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed				
	INI OT OVER VOLTAGE Hote./	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				
FNVIDONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
		-40 ~ +80°C, 10 ~ 95% RH				
ENVIRONMENT	STORAGE TEMP., HUMIDITY					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72	2min. each along X, Y, Z axes			
	SAFETY STANDARDS Note.7	UL8750(type"HL"), UL879, CSA C22.2 No. 250.				
	ON ETT OF MEDITALES	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-1001 type only);NOM-058-SCFI-2017(except for Blank type); IP67 approved				
); IP67 approved		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/F	P-FG:1.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500	VDC / 25°C / 70% RH			
		Parameter	Standard	Test Level/Note		
		Conducted	BS EN/EN55015(CISPR15), GB/T 17743			
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15), GB/T 17743			
			BS EN/EN61000-3-2 , GB17625.1	Class C @load≥50%		
EMC.			BS EN/EN61000-3-3			
EMC			B0 E14/E1401000-0-0			
SAFETY &	EMC IMMUNITY	BS EN/EN61547				
			Standard	Test Level/Note		
			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 opti		
		Conducted	BS EN/EN61000-4-6	Level 3		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
				>95% dip 0.5 periods, 30% dip 25 periods,		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% interruptions 250 periods		
	MTBF	2782.6K hrs min. Telcordia SR-332 (Bellc	core); 276.4Khrs min. MIL-HDBK-21			
OTHEDO		,	oroj, 210.4KIII3 IIIII. IVIIL-I IDDN-21	11 (200)		
OTHERS	DIMENSION	140*63*32mm (L*W*H)				
	1 All parameters NOT appoints	0.58Kg;24pcs /15Kg /0.85CUFT	ated current and 25°C of each last to the	LIFO.		
NOTE	 All parameters NOT specially Please refer to "DRIVING ME 	mentioned are measured at 230VAC input, ra THODS OF LED MODULE".	aleu current and ∠5 ⊜ of ambient temperat	ure.		
	3. Ripple & noise are measured	at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.				
		plerance, line regulation and load regulation. der low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.				
	6. Length of set up time is meas	sured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.				
		00 I series, and I series without UL/CSA certificate. component that will be operated in combination with final equipment. Since EMC performance will be affected by the				
	The driver is considered as a complete installation, the final		on with final equipment. Since EMC perfor MC Directive on the complete installation a			

- complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
 (as available on https://www.meanwell.com/l/pload/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



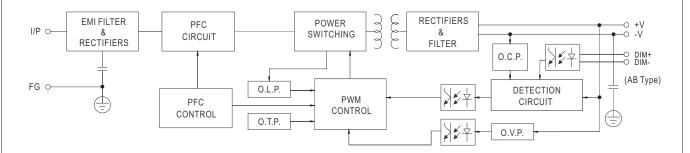
SPECIFICATION

		XLG-100L	XLG-100 □-H-□				
- F	RATED CURRENT (Default)	700mA	2100mA				
1	RATED POWER	100W	100W				
OUTPUT	CONSTANT CURRENT REGION	71 ~ 142V	27 ~ 56V				
	FULL POWER CURRENT RANGE		1750~2780mA				
- F	OPEN CIRCUIT VOLTAGE (max.)						
- H	CURRENT ADJ. RANGE	350~1050mA 875~2780mA					
- F	CURRENT RIPPLE	3.0%(@rated current)					
- H	CURRENT TOLERANCE	$\pm 5\%$					
	SET UP TIME	500ms/230VAC, 1200ms/115VAC					
	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					
	DOMED FACTOR (T)	PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load					
	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)					
	TOTAL HARMONIO DIOTORTION	THD<10% (@ load≥50% at 115VAC/230VAC,@load≥75% at 277VAC)					
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
INPUT	EFFICIENCY (Typ.)	92.5%					
- H	AC CURRENT (Typ.)	1.1A / 115VAC					
F	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured at					
		COLD STAIRT SOA(twittin-Soops measured at	30 /0 ipeak) at 200 VAC, i el INEIVIA 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						
ļ	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY	Standby power consumption <0.5W fo	r AB-Type(Dimming OFF)(for standar	d version)			
	POWER CONSUMPTION						
	OVED DOWED	105 ~ 150%					
	OVER POWER	Hiccup mode, recovers automatically after f	fault condition is removed				
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, re	ecovers automatically after fault condition is	s removed			
		160 ~ 220V	66 ~ 90V				
PROTECTION	OVER VOLTAGE	Shut down output voltage, re-power on to					
-				ware automotically after fault and itian is removed			
	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)					
-	OVED TEMPEDATURE	Can survive input voltage stress of 440Vac for 48 hours Shut down output voltage, re-power on to recover					
	OVER TEMPERATURE						
- H	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
-	MAX. CASE TEMP.	Tcase=+90°C					
FNVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
LITTINONIILITT	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. 250.13-1	12; ENEC BS EN/EN61347-1, BS EN/EN61	347-2-13 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, 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:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500	0VDC / 25°C / 70% RH				
EMC		Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15) ,GB/T17743				
	5110 5111001011	Radiated	BS EN/EN55015(CISPR15) ,GB/T17743				
	EMC EMISSION		. , , , , , , , , , , , , , , , , , , ,				
		Harmonic Current	BS EN/EN61000-3-2 ,GB/T17625.1 BS EN/EN61000-3-3	Class C @load≥50%			
		Voltage Flicker	ES ENTENISTON 2 2				
			B3 EN/EN01000-3-3				
_		BS EN/EN61547					
_		BS EN/EN61547 Parameter	Standard	Test Level/Note			
		BS EN/EN61547					
		BS EN/EN61547 Parameter	Standard	Test Level/Note			
	EMC IMMUNITY	BS EN/EN61547 Parameter ESD	Standard BS EN/EN61000-4-2	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
	EMC IMMUNITY	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	BS EN/EN61547 Parameter ESD Radiated EFT/Burst	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			
	EMC IMMUNITY	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 optic			
	EMC IMMUNITY	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	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			
	EMC IMMUNITY	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 Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
		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			
_	мтвғ	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli	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			
OTHERS	MTBF DIMENSION	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Bell 140*63*32mm (L*W*H)	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			
OTHERS	мтвғ	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli	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			
OTHERS NOTE	MTBF DIMENSION PACKING 1. All parameters NOT specially	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, re	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 core); 276.4Khrs min. MIL-HDBK-2	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 4 >95% dip 0.5 periods, 30% dip 25 periods, 395% interruptions 250 periods			
OTHERS NOTE	MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, ra THODS OF LED MODULE*.	Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 276.4Khrs min. MIL-HDBK-27 atted current and 25°C of ambient temperature.	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 7F (25°C)			
OTHERS NOTE	MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance: includes set up tol	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, ra THODS OF LED MODULE". THODS OF LED MODULE". at 20MHz of bandwidth by using a 12" twisted erance, line regulation and load regulation.	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 core); 276.4Khrs min. MIL-HDBK-2-1	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact 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 7F (25°C)			
OTHERS NOTE	MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance: includes set up tol 5. De-rating may be needed unc	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Bell: 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, rat THODS OF LED MODULE". at 20MHz of bandwidth by using a 12" twisted erance, line regulation and load regulation. ler low input voltages. Please refer to "STATIC	Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 276.4Khrs min. MIL-HDBK-2 ated current and 25°C of ambient temperature of pair-wire terminated with a 0.1uf & 47uf pair-wire terminate	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 7F (25°C) are leading to the contact of th			
OTHERS NOTE	MTBF DIMENSION PACKING 1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Ripple & noise are measured 4. Tolerance: includes set up tol 5. De-rating may be needed unc 6. Length of set up time is measi	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, ra THODS OF LED MODULE". at 20MHz of bandwidth by using a 12" twisted erance, line regulation and load regulation. Itel row input voltages. Please refer to "STATIC ured at first cold start. Turning ON/OFF the driver and the start of the property of the propert	Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 276.4Khrs min. MIL-HDBK-2* ated current and 25°C of ambient temperature of the set up time of the set up tim	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 7F (25°C) are leading to the contact of th			
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OTHERS NOTE	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-10 8. The driver is considered as a complete installation, the final	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Bell 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, ra THODS OF LED MODULE". at 20MHz of bandwidth by using a 12" twisted erance, line regulation and load regulation. are low input voltages. Please refer to "STATIC ured at first cold start. Turning ON/OFF the dri 0 I series, and I series without UL/CSA certific component that will be operated in combinatic equipment manufacturers must re-qualify EM	Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-11 core); 276.4Khrs min. MIL-HDBK-2* ated current and 25°C of ambient temperature are an experienced by a complete installation ago with final equipment. Since EMC perform CD Directive on the complete installation ago	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 7F (25°C) are. transport to the street of the stre			
OTHERS NOTE	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 unc 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 9. The ambient temperature der	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, re THODS OF LED MODULE". at 20MHz of bandwidth by using a 12" twisted erance, line regulation and load regulation. ler low input voltages. Please refer to "STATIC ured at first cold start. Turning ON/OFF the dri of 1 series, and I series without UL/CSA certific component that will be operated in combinatic equipment manufacturers must re-qualify EN atting of 3.5°C/1000m with fanless models and	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 core); 276.4Khrs min. MIL-HDBK-2* ated current and 25°C of ambient temperature of pair-wire terminated with a 0.1uf & 47uf pair-wire termi	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 7F (25°C) are arallel capacitor.			
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OTHERS NOTE	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 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 9. The ambient temperature der 10. Please refer to the warranty 11. This series meets the typical 12. Products sourced from the A	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2782.6K hrs min. Telcordia SR-332 (Belli 140*63*32mm (L*W*H) 0.58Kg;24pcs /15Kg /0.85CUFT mentioned are measured at 230VAC input, rathOS OF LED MODULE". at 20MHz of bandwidth by using a 12" twisted erance, line regulation and load regulation. let low input voltages. Please refer to "STATIC ured at first cold start. Turning ON/OFF the drift of 1 series, and I series without UL/CSA certific component that will be operated in combination equipment manufacturers must re-qualify EM atting of 3.5°C/1000m with fanless models and statement on MEAN WELL's website at http://life expectancy of >50,000 hours of operation mericas regions may not have the PSE/CCC.	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 core); 276.4Khrs min. MIL-HDBK-2* ated current and 25°C of ambient temperature and a complete installation against the set up time ate. On with final equipment. Since EMC perform (C) Directive on the complete installation against for operating when Tcase, particularly (©) point (or TMF/BIS/KC logo. Please contact your MEAN V	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 7F (25°C) are. arallel capacitor. annoe will be affected by the ain. g altitude higher than 2000m(6500ft).			
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■ BLOCK DIAGRAM

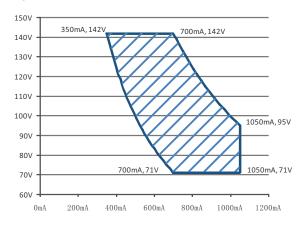
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



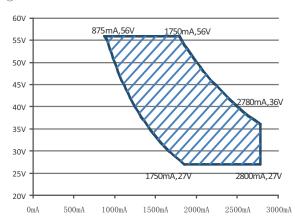
■ DRIVING METHODS OF LED MODULE

% I-V Operating Area

XLG-100-L

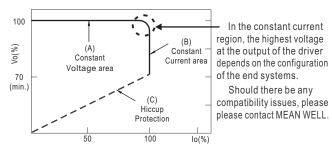


Recommend Performance Region



Recommend Performance Region

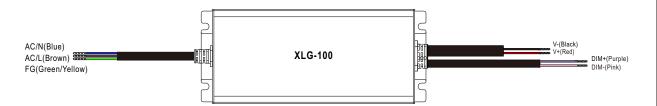
This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



Typical output current normalized by rated current (%)

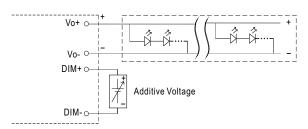


■ DIMMING OPERATION

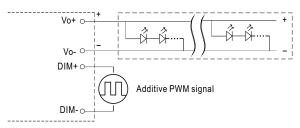


※ 3 in 1 dimming function (for AB-Type)

- 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.)

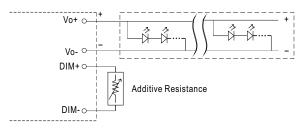


"DO NOT connect "DIM- to Vo-"

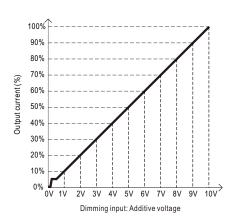


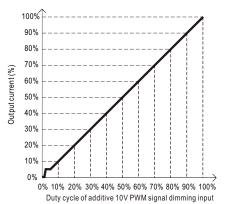
"DO NOT connect "DIM- to Vo-"

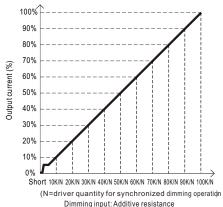
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





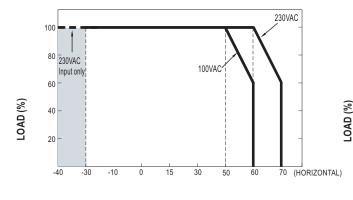


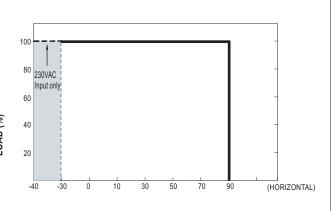
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

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





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

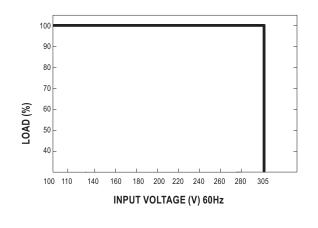
■ STATIC CHARACTERISTIC

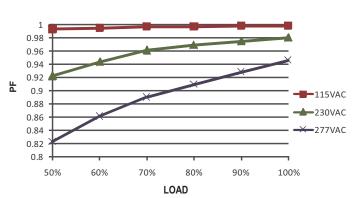
■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

C

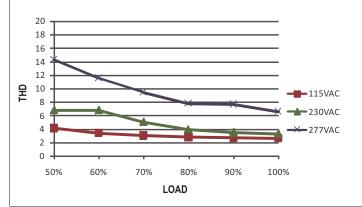
Constant Current Mode





■ TOTAL HARMONIC DISTORTION (THD)

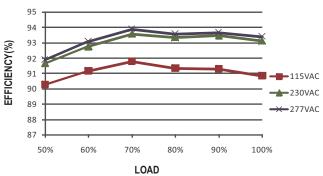
※ XLG-100-L Model, Tcase at 75℃



■ EFFICIENCY vs LOAD

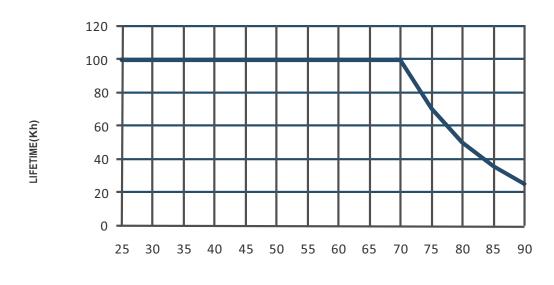
XLG-100 series possess superior working efficiency that up to 92.5% can be reached in field applications.

※ XLG-100-L Model. Tcase at 75°C



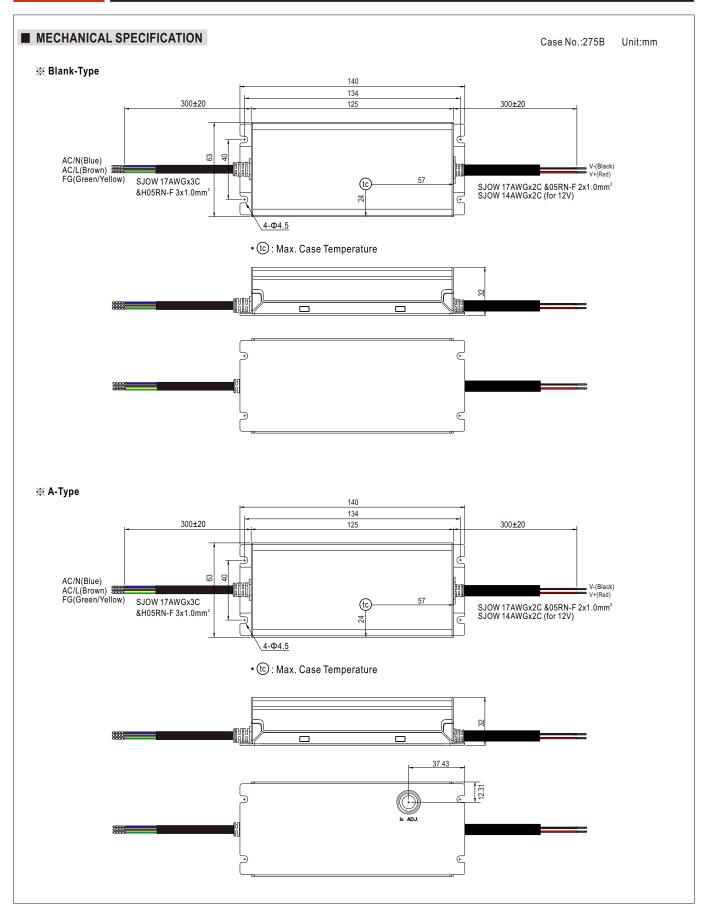


■ LIFE TIME



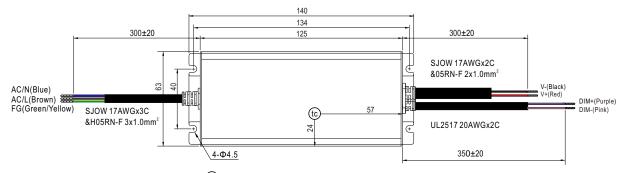
Tcase ($^{\circ}\!\mathbb{C}$)



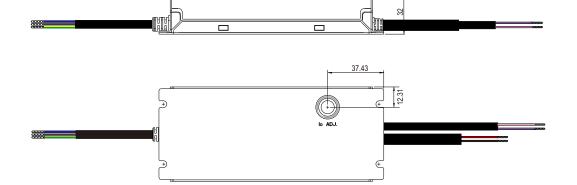




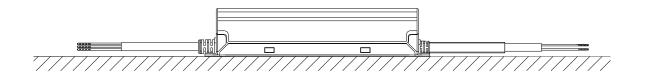
※ AB-Type



• tc : Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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