

































## Features

- Wide input range 100~305V AC( Class I)
- Full power output at 70~100% Constant power mode operation
- Metal case with IP67, suitable for outdoor application
- 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

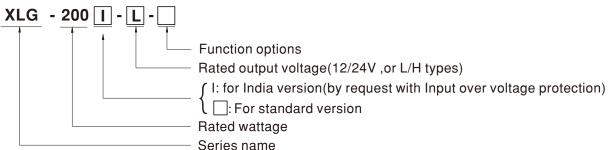
### GTIN CODE

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

# Description

XLG-200 series is a 200W LED AC/DC driver featuring the constant power mode. XLG-200 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 16A. Thanks to the high efficiency up to 94%, 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-200 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
CV	CV-type only with constant voltage function and only for 12V and 24V models, lo and Vo are fixed.	By request

Note: 1.12V and 24V models without AB type

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



# 200W Constant Voltage + Constant Current LED Driver

# **SPECIFICATION**

ОИТРИТ	DC VOLTAGE  CONSTANT CURRENT REGION Note 2  RATED CURRENT (Default)  RATED POWER  RIPPLE & NOISE (max.) Note.3  CURRENT ADJ. RANGE  VOLTAGE TOLERANCE Note.4	16A 192W		24V 16.8~ 24V 8.3A				
OUTPUT	RATED CURRENT (Default) RATED POWER RIPPLE & NOISE (max.) Note.3 CURRENT ADJ. RANGE	16A 192W						
OUTPUT	RATED POWER RIPPLE & NOISE (max.) Note.3 CURRENT ADJ. RANGE	192W		8.3A				
OUTPUT	RIPPLE & NOISE (max.) Note.3 CURRENT ADJ. RANGE	· .						
OUTPUT -	CURRENT ADJ. RANGE	150mVp-p		199.2W				
DUTPUT		Adimatable for A. Toma and Color than built in						
	VOLTAGE TOLERANCE Note.4	Adjustable for A-Type only (via the built-in potentiometer)  8 ~ 16A						
		±3.0%		±2.0%				
	LINE REGULATION	±0.5%		±0.5%				
	LOAD REGULATION	±2% ±1%						
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC						
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC						
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR	$PF \!\! \geq \!\! 0.97/115 VAC, PF \!\! \geq \!\! 0.95/230 VAC, PF \!\! \geq \!\! 0.92/277 VAC \!                                   $						
	TOTAL HARMONIC DISTORTION	THD< 10%(@load≧50%/115VC,230VAC	THD<10%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)					
INPUT	EFFICIENCY (Typ.)	92% 94%						
	AC CURRENT	2.2A / 115VAC 1.1A / 230VAC 0.9A / 277VAC						
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550µs measured at 50% Ipeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 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)						
		110~160% for CV type,95~108% for other	rtype					
-	OVER CURRENT	CV-type: Hiccup mode only; Other type: H	liccup or constant current lim		•			
	SHORT CIRCUIT	CV-type: Hiccup mode only; Other type: H		•	atically after fault condition is removed			
ROTECTION	OVER VOLTAGE	13.5 ~ 18V 27 ~ 34V						
-	INPUT OVER VOLTAGE	Shut down output voltage, re-power on to recover  320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed)						
		Can survive input voltage stress of 440Vac for 48 hours(Input over voltage only for XLG-200I series)						
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
-	MAX. CASE TEMP.	Tcase=+90°℃						
H	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
- h	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						
	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 TPTC 004; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13, IS15885(Part2/Sec13) (for XLG-200I type only );						
EMC SAFETY &	WITHSTAND VOLTAGE	NOM-058-SCFI-2017(except for Blank type);IP67 approved  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
JAILII 4	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50						
İ		Parameter	Standard		Test Level/Note			
		Conducted	BS EN/EN55015(CISP	R15) .GB/T 17743				
	EMC EMISSION	Radiated	BS EN/EN55015(CISP	, ,				
		Harmonic Current	BS EN/EN61000-3-2 ,G		Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3					
		BS EN/EN61547	20 2.1/21101000-0-0		1			
		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			
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-4		Level 3			
		Surge	BS EN/EN61000-4-4		4KV/Line-Line 6KV/Line-Earth(6K/10K option)			
					` '			
		Conducted  Magnetic Field	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	,	ellcore); 200.7Khrs min.	MIL-HDBK-217F (25°C	C)			
	DIMENSION	199*63*35.5mm (L*W*H)						
IOTE	1 All parameters NOT appoints	0.85Kg;16pcs /14.2Kg /0.75CUFT y mentioned are measured at 230VAC inp	nut roted or mant cond OF 00	of ambient terminal				
	Ripple & noise are measured     Tolerance : includes set up tr     De-rating may be needed ur     Length of set up time is mea     Only CE/ENEC/CB is availal     The driver is considered as a complete installation, the fina (as available on https://www.	ETHODS OF LED MODULE"(Except for 0 d at 20MHz of bandwidth by using a 12" to lerance, line regulation and load regulation der low input voltages. Please refer to "SI sured at first cold start. Turning ON/OFF to led for CV-type. XLG-2001 series without to a component that will be operated in combal equipment manufacturers must re-qualifimeanwell.com//Upload/PDF/EMI_stateme	wisted pair-wire terminated von.  TATIC CHARACTERISTIC" the driver may lead to increa JL/CSA certificate. ination with final equipment fy EMC Directive on the coment en.pdf)	sections for details. ase of the set up time. b. Since EMC performanplete installation again	ance will be affected by the n.			
	10. Please refer to the warranty 11. The ambient temperature d 12. Products sourced from the 13. For any application note an https://www.meanwell.com/ 14. To fulfill requirements of the 15. If you need the NOM (Mexi		http://www.meanwell.com and of 5°C/1000m with fa r/PSE/BIS/KC logo. Please of on, please refer our user mathis LED driver can only be u.L.L sales representative for d	in models for operatinontact your MEAN Williamual before using.  Used behind a switch villetails.	g altitude higher than 2000m(6500ft). ELL sales for more information. without permanently connected to the mains			

### 200W Constant Power Mode LED Driver

MODEL		XLG-200 -L-	XLG-200 □-H-□					
	RATED CURRENT (Default)	700mA	3500mA					
ОИТРИТ	RATED POWER	200W	200W					
	CONSTANT CURRENT REGION Note.2	142 ~285V	27 ~ 56V					
	FULL POWER CURRENT RANGE	. 700~1050mA	3500~5550mA					
	OPEN CIRCUIT VOLTAGE (max.)	300V 60V						
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the buil	t-in potentiometer)					
	CORRENT ADJ. RANGE	350~1050mA	1750~5550mA					
	CURRENT RIPPLE	3.0%(@ Load≥50% rated voltage)						
	CURRENT TOLERANCE	$\pm 5\%$						
	SET UP TIME Note.4	500ms/230VAC, 1200ms/115VAC						
	VOLTAGE RANGE Note.3	100 ~ 305VAC 142VDC ~ 431VDC						
	VOLIAGE NAME NOTE.S	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	$PF \ge 0.97 / 115VAC$ , $PF \ge 0.95 / 230VAC$ , $PF \ge 0.92 / 277VAC$ at full load						
	TOWERT ACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)						
	TOTAL HARMONIC DISTORTION	THD<10% (@ load≥50% at 115VAC/230VAC,@load≥75% at 277VAC)						
	TO IAE IIA MINIONIO DIOTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section						
INPUT	EFFICIENCY (Typ.)	94% 93%						
	AC CURRENT (Typ.)	2.2A/115VAC 1.1A/230VAC 0.9A/277VAC						
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550µs measured at 50% lpeak) at 230VAC; Per NEMA 410						
	MAX. NO. of PSUs on 16A	3 unit(circuit breaker of type B) / 6 units(circuit breaker of type C) at 230VAC						
	CIRCUIT BREAKER							
	LEAKAGE CURRENT	<0.75mA / 277VAC						
	STANDBY	Standby power consumption <0.5W for AP	-Type(Dimming OFF)(for standard version)					
	POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)						
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed						
	OVER VOLTAGE	301 ~ 360V 61 ~ 85V Shut down output voltage, re-power on to recovery						
PROTECTION	OVER VOLIAGE							
	INPUT OVER VOLTAGE	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(Input over voltage only for XLG-200I series)						
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover						
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+90°C						
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT		-40 ~ +80°C, 10 ~ 95% RH non-condensing					
		±0.03%/°C (0 ~ 60°C)	70m: h - l - m V V 7					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for	• • • • • • • • • • • • • • • • • • • •					
	SAFETY STANDARDS Note.5	UL8750(type"HL"), CSA C22.2 No. 250.13-12; BS EN/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-200I type only ); NOM-058-SCFI-2017(except for Blank type); IP67 approved						
	SAFETT STANDARDS Note.5	OB 10010.11,E10 11 10 001, 001011 1(1120)						
		NOM-058-SCFI-2017(except for Blank type);IF	P67 approved					
SAFETY &	WITHSTAND VOLTAGE	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/	P67 approved /P-FG:1.5KVAC					
SAFETY &	WITHSTAND VOLTAGE ISOLATION RESISTANCE	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC	P67 approved /P-FG:1.5KVAC 500VDC / 25°C / 70% RH	385(Part2/Sec13)(for XLG-200I type only );				
	WITHSTAND VOLTAGE	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC	P67 approved /P-FG:1.5KVAC	385(Part2/Sec13)(for XLG-200I type only );				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	NOM-058-SCFI-2017(except for Blank type);IF I/P-0/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter	P67 approved /P-FG:1.5KVAC 500VDC / 25°C / 70% RH N61000-3-2 Class C (@ load≧50%); BS EN/EN Standard	385(Part2/Sec13)(for XLG-200I type only );				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted	P67 approved /P-FG:1.5KVAC 600VDC / 25°C / 70% RH N61000-3-2 Class C (@ load≧50%); BS EN/EN	885(Part2/Sec13)(for XLG-2001 type only ); 61000-3-3    Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743	885(Part2/Sec13)(for XLG-2001 type only ); 61000-3-3    Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≥50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1	885(Part2/Sec13)(for XLG-2001 type only ); 61000-3-3    Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743	885(Part2/Sec13)(for XLG-2001 type only ); 61000-3-3    Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≥50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1	885(Part2/Sec13)(for XLG-2001 type only );  61000-3-3    Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3	885(Part2/Sec13)(for XLG-2001 type only );  61000-3-3    Test Level/Note     Class C @load≥50%				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3	885(Part2/Sec13)(for XLG-2001 type only );  61000-3-3  Test Level/Note Class C @load≥50% Test Level/Note				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2	885(Part2/Sec13)(for XLG-2001 type only );  61000-3-3  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3	885(Part2/Sec13)(for XLG-2001 type only );  61000-3-3  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 EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EN Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4	885(Part2/Sec13)(for XLG-2001 type only );  61000-3-3  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 EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5	885(Part2/Sec13)(for XLG-2001 type only );  61000-3-3  Test Level/Note  Class C @load≥50%  Test Level 3, 8KV air ; Level 2, 4KV contact Level 3  Level 3  4KV/Line-Line 6KV/Line-Earth(6K/10K optior Level 3  Level 3				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC EMISSION	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	P67 approved  PFG:1.5KVAC  00VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8	885(Part2/Sec13)(for XLG-200I type only);  61000-3-3  Test Level/Note  Class C @load≥50%  Test Level 3, 8KV air; Level 2, 4KV contact Level 3  Level 3  4KV/Line-Line 6KV/Line-Earth(6K/10K optior Level 3  Level 4  >95% dip 0.5 periods, 30% dip 25 periods,				
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION  EMC EMISSION  EMC IMMUNITY	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≥50%); BS EN/EN  Standard  BS EN/EN55015 (CISPR15) ,GB/T 17743  BS EN/EN55015 (CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-11	885(Part2/Sec13)(for XLG-200I type only);  61000-3-3  Test Level/Note  Class C @load≥50%  Test Level 3, 8KV air; Level 2, 4KV contact Level 3  Level 3  4KV/Line-Line 6KV/Line-Earth(6K/10K optior Level 3  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
EMC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION  EMC EMISSION  EMC IMMUNITY	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2300.1K hrs min. Telcordia SR-332 (Be	P67 approved  PFG:1.5KVAC  00VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≧50%); BS EN/EN  Standard  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN55015(CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8	885(Part2/Sec13)(for XLG-200I type only );  61000-3-3  Test Level/Note  Class C @load≥50%  Test 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 EMISSION  EMC IMMUNITY	NOM-058-SCFI-2017(except for Blank type);IF I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5 Compliance to BS EN/EN55015, BS EN/EI Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	P67 approved  /P-FG:1.5KVAC  500VDC / 25°C / 70% RH  N61000-3-2 Class C (@ load≥50%); BS EN/EN  Standard  BS EN/EN55015 (CISPR15) ,GB/T 17743  BS EN/EN55015 (CISPR15) ,GB/T 17743  BS EN/EN61000-3-2 ,GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-11	885(Part2/Sec13)(for XLG-200I type only );  61000-3-3  Test Level/Note  Class C @load≥50%  Test 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				

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

  3. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.

  4. 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.

  5. XLG-200I series without UL/CSA certificate.

  6. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

  (as available on https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)

  7. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less.

  8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com

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

- the mains.

  11. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.

  12. 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

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

  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.

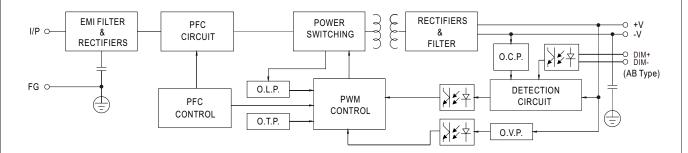
  \*\*Product\*\* Lightility Discipling\*\*: For Idealided information, please refer to biths: //www.meanwell.com/service/Discipling\*\* psy.

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



### ■ BLOCK DIAGRAM

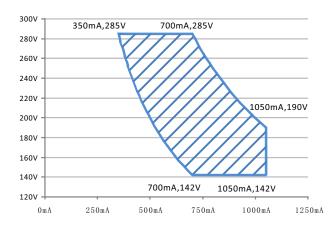
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



### ■ DRIVING METHODS OF LED MODULE

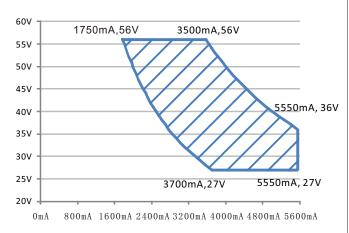
### **%** I-V Operating Area

### XLG-200-L



### Recommend Performance Region

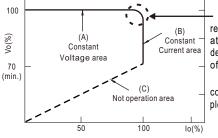
### 



Recommend Performance Region

### **XLG-200-12,24**

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



 In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please please contact MEAN WELL.

Typical output current normalized by rated current (%)

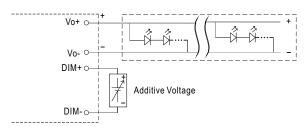
# MEAN WELL

## **■ DIMMING OPERATION**



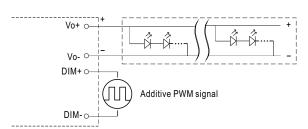
### 3 in 1 dimming function (for AB-Type)

- 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.)



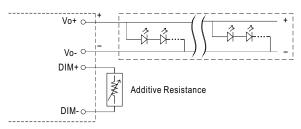
"DO NOT connect "DIM- to Vo-"

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

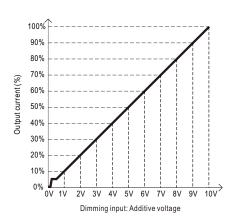


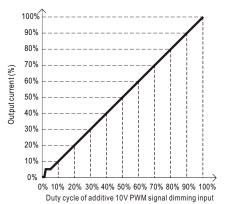
"DO NOT connect "DIM- to Vo-"

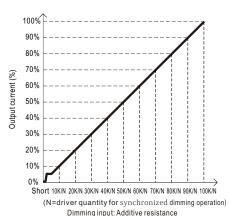
O Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





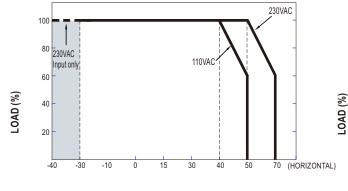


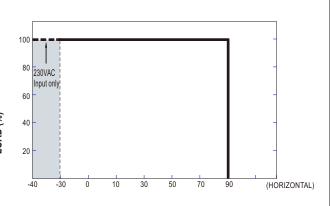
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

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



### ■ OUTPUT LOAD vs TEMPERATURE



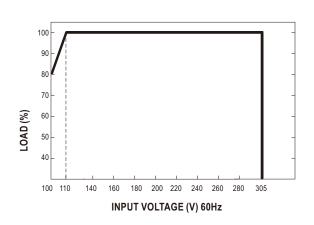


AMBIBS EN/ENT TEMPERATURE,Ta (°C)

Tcase (°C)

If XLG-200 operates in Constant Power mode with the rated current the maximum workable Ta is  $50^{\circ}$ C (Typ. 230VAC) or  $40^{\circ}$ C (typ.110VAC). Below 110VAC@-30°C may has restart situation within 5s after power-on.

### ■ STATIC CHARACTERISTIC

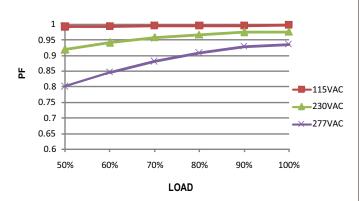


# ■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

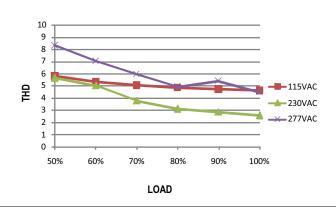
C

### **Constant Current Mode**



# ■ TOTAL HARMONIC DISTORTION (THD)

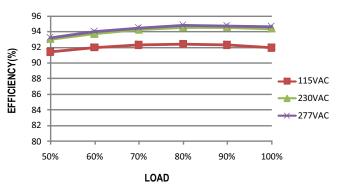
### ※ XLG-200-L Model. Tcase at 75°C



### **■** EFFICIENCY vs LOAD

XLG-200 series possess superior working efficiency that up to 94% can be reached in field applications.

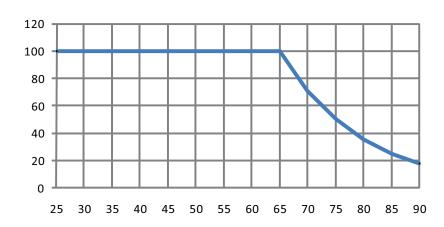
※ XLG-200-L Model. Tcase at 75°C





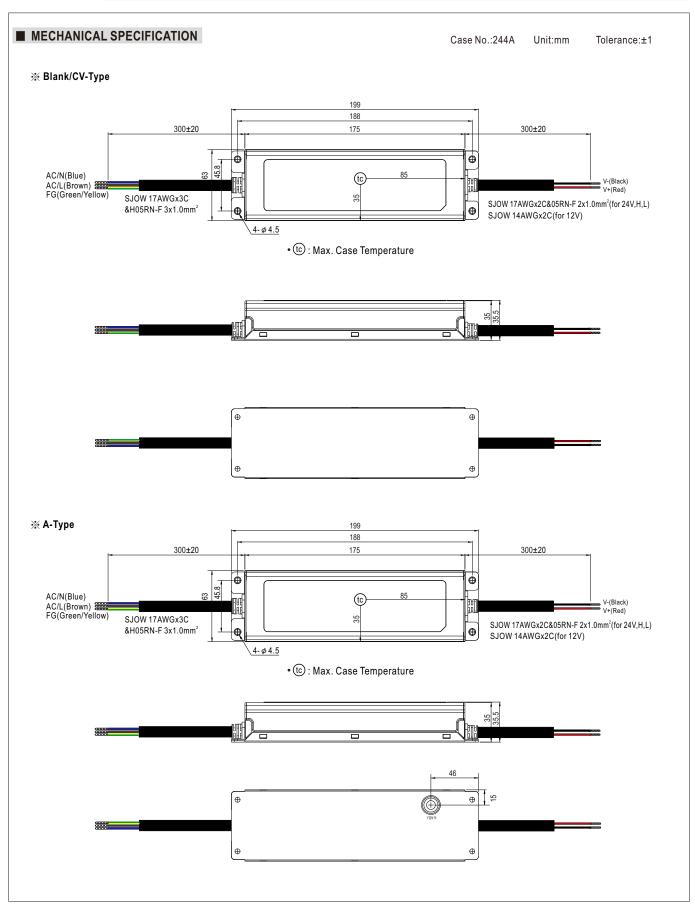
# ■ LIFE TIME



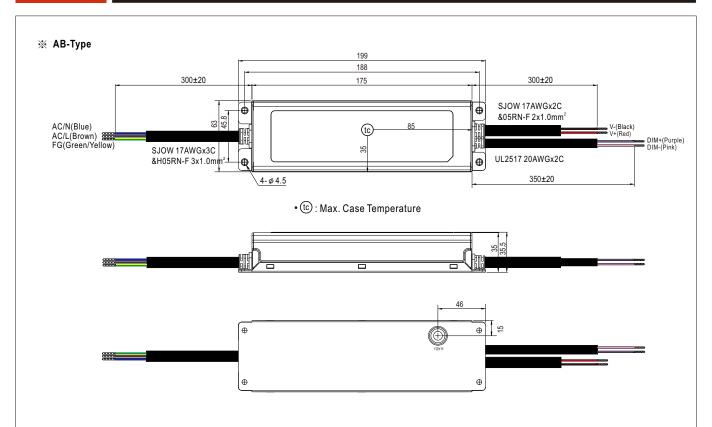


Tcase (  $^{\circ}\!\mathbb{C}$  )

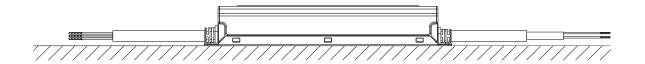








# ■ Recommend Mounting Direction



### **■ INSTALLATION MANUAL**

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