































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

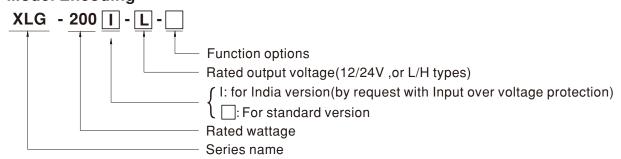
Applications

- · 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

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/GB7000.1-2015 and UL8750 international safety regulations. The output and dimming circuit are also completely in accordance with the new regulations with isolation to ensure the safety of both user and luminaire system during installation.

Model Encoding



Type	Function	Note
Blank	lo 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



200W Constant Voltage + Constant Current LED Driver

SPECIFICATION

		XLG-200 □ -12- □	XLG-2	00 🔲 -24- 🗌			
	DC VOLTAGE	12V	24V				
	CONSTANT CURRENT REGION Note.2	8.4~ 12V	16.8~ 2	4V			
	RATED CURRENT	16A	8.3A				
	RATED POWER	192W	199.2W	I			
	RIPPLE & NOISE (max.) Note.3	150mVp-p	240mV	p-p			
		Adjustable for A-Type only (via the built-in potentiometer)					
	CURRENT ADJ. RANGE	8 ~ 16A 4.15 ~ 8.3A					
OUTDUT	VOLTAGE TOLERANCE Note.4	±3.0%	±2.0%				
OUTPUT	LINE REGULATION	±0.5% ±0.5%					
	LOAD REGULATION	±2%	±1%				
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/115	VAC				
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC					
	(3),	100 ~ 305VAC 142 ~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	47 ~ 63HZ PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load					
	TOTAL HARMONIC DISTORTION	THD<10%(@load≥50%/115VC,230VAC; @load≥75%/277VAC)					
NPUT	EFFICIENCY (Typ.)	92%	94%				
	AC CURRENT	2.2A / 115VAC 1.1A / 230VAC 0.9A/277V					
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550µs measured at		- MA 410			
		COLD START 05A(twidtii=350µs illeasured at	30 % ipeak) at 230 VAC; Fel IVL	.IVIA 4 10			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (circ	uit breaker of type C) at 230VA	С			
		0.75 4 (0.77) 4 0					
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD	No load power consumption <0.5W(for st	andard version)				
	POWER CONSUMPTION						
	OVER CURRENT	95 ~ 108%					
	OVER CURRENT	Hiccup mode or constant current limiting, reco	vers automatically after fault co	ndition is remov	ed		
	SHORT CIRCUIT	Hiccup mode or constant current limiting, recov	vers automatically after fault co	ndition is remove	ed		
ROTECTION		13.5 ~ 18V	27 ~ 34	V			
	OVER VOLTAGE	Shut down output voltage, re-power on to recover					
	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is remo					
	INFUTOVER VOLTAGE Note./	Can survive input voltage stress of 440Vac for 48 hours @ tc 75℃ max					
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover					
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
NVIRONMENT		-40 ~ +90°C, 10 ~ 95% RH					
LINVINONIILINI							
		±0.03%/°C (0 ~ 60°C)					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C) 10 ~ 500Hz 5G 12min /1cycle, period for 72m	in each along X Y 7 axes				
		10 ~ 500Hz, 5G 12min./1cycle, period for 72m	-	independent EN	62394-CD40640-4 CD40640-4A-EAC TD TC		
	TEMP. COEFFICIENT	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; El	NEC EN61347-1, EN61347-2-13				
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1,KC	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13				
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC				
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH		2017(except for Blank type);IP67 approved		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard	i);NOM-058-SCFI	2017(except for Blank type);IP67 approved Test Level/Note		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15),GB/T177	743	2017(except for Blank type);IP67 approved Test Level/Note		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15),GB/T177	743 743	2017(except for Blank type);IP67 approved Test Level/Note		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15),GB/T177	743 743	2017(except for Blank type);IP67 approved Test Level/Note		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15),GB/T177	743 743	2017(except for Blank type);IP67 approved Test Level/Note		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15), GB/T177 EN55015(CISPR15), GB/T177 EN61000-3-2, GB/T17625.1	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50%		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15), GB/T177 EN55015(CISPR15), GB/T177 EN61000-3-2, GB/T17625.1	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50%		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter :	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015 (CISPR15), GB/T177 EN55015 (CISPR15), GB/T177 EN61000-3-2, GB/T17625.1	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50%		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015 (CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015 (CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3 Standard EN61000-4-2	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 61347-2-13, IS15885 (Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015 (CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 G:1.5KVAC DC / 25°C / 70% RH Standard EN55015 (CISPR15), GB/T177 EN55015 (CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 61:347-2-13, IS1885 (Part2/Sec13 61:347-348-13, IS1885 (Part2/Se	743 743	Z017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option)		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 61.5KVAC DC / 25°C / 70% RH Standard EN55015 (CISPR15), GB/T177 EN55015 (CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-8	743 743	2017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 3 Level 3		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 61:347-2-13, IS1885 (Part2/Sec13 61:347-348-13, IS1885 (Part2/Se	743 743	2017(except for Blank type);IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 3		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-8 EN61000-4-8 EN61000-4-11	743 743	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
MC AFETY &	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P; I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-8 EN61000-4-8 EN61000-4-11	743 743	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
EMC AFETY &	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 749.06K hrs min. Telcordia SR-332 (Bellcou	NEC EN61347-1, EN61347-2-13 61347-2-13,IS15885(Part2/Sec13 FG:1.5KVAC DC / 25°C / 70% RH Standard EN55015(CISPR15), GB/T177 EN61000-3-2, GB/T17625.1 EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-8 EN61000-4-8 EN61000-4-11	743 743	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
EMC SAFETY &	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT speciality	10 ~ 500Hz, 5G 12min./1cycle, period for 72m UL8750(type"HL"), CSA C22.2 No. 250.13-12; EI J61347-1(H29), J61347-2-13(H29), KC61347-1, KC I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-F I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VI Parameter Conducted Radiated Harmonic Current Voltage Flicker EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 749.06K hrs min. Telcordia SR-332 (Bellcon 199*63*35.5mm (L*W*H) 0.85Kg;16pcs /14.2Kg /0.72CUFT mentioned are measured at 230VAC input, re	NEC EN61347-1, EN61347-2-13 61347-2-13, IS15885 (Part2/Sec13 61.5KVAC DC / 25°C / 70% RH Standard EN55015 (CISPR15) , GB/T177 EN55015 (CISPR15) , GB/T177 EN61000-3-2 , GB/T17625.1 EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-6 EN61000-4-6 EN61000-4-8 EN61000-4-11 re); 200.67Khrs min. MIL-H	743 743 DBK-217F (25°C	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option) Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
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- complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

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

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

 11. 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).

 12. Products sourced from the Americas regions may not have the CCC/PSE/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.

SPECIFICATION

MODEL		XLG-200L	XLG-20	0H			
	RATED CURRENT	700mA	3500m	4			
	RATED POWER	200W	200W				
	CONSTANT CURRENT REGION Note.2		27 ~ 56				
	FULL POWER CURRENT RANGE		3500~5	550mA			
DUTPUT	OPEN CIRCUIT VOLTAGE (max.)		60V				
	CURRENT ADJ. RANGE	Adjustable for A/AB-Type only (via the built-in potentiometer) 350~1050mA 1750~5550mA					
	CURRENT RIPPLE	3.0%(@ Load≥50% rated voltage)					
	CURRENT TOLERANCE	±5%					
	SET UP TIME Note.4	500ms/230VAC, 1200ms/115VAC					
	VOLTAGE RANGE Note.3	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	$\label{eq:prediction} PF \ge 0.97 \ / \ 115 \ VAC, \ PF \ge 0.95 \ / \ 230 \ VAC, \ PF \ge 0.92 \ / \ 277 \ VAC \ at \ full \ load \ (Please refer to "Power Factor Characteristic" section)$					
	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.)	94%	93%				
	AC CURRENT (Typ.)	2.2A / 115VAC 1.1A / 230VAC	0.9A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550μs measure	d at 50% Ipeak) at 230VAC; Per NEM	A 410			
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	3 unit(circuit breaker of type B) / 6 units	(circuit breaker of type C) at 230VA	0			
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W for AB-Type(Dimming OFF)(for standard version)					
	SHORT CIRCUIT	Hiccup mode or Constant current limiting	g,recovers automatically after fault	condition is removed			
PROTECTION	OVER VOLTAGE	301 ~ 360V 61 ~ 85V Shut down output voltage, re-power on to recovery					
	INPUT OVER VOLTAGE Note.5	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 @ tc 75°C max					
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover					
	WORKING TEMP.	Tcase=-40 \sim +90 $^{\circ}$ 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 ~ +80 °C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)	±0.03%/°C (0 ~ 60°C)				
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
	SAFETY STANDARDS Note.5	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1, GB19510.14; EAC TP TC J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13, IS15885(Part2/Sec13); 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					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
	EMC EMISSION	Compliance to EN55015, EN61000-3-2					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11		e immunity Line-Earth 6KV , Line-Line 4KV)(10K/6KV option)			
		Parameter	Standard	Test Level/Note			
		Conducted	EN55015(CISPR15),GB/T1				
	EMC EMISSION	Radiated	EN55015(CISPR15) ,GB/T1				
		Harmonic Current	EN61000-3-2 ,GB/T17625.1	Class C @load≥50%			
		Voltage Flicker	EN61000-3-3				
	EMC IMMUNITY	EN61547	Otendend	T411/N-4-			
		Parameter	Standard	Test Level/Note			
		ESD	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	EN61000-4-3	Level 3			
		EFT/Burst	EN61000-4-4	Level 3			
		Surge	EN61000-4-5	4KV/Line-Line 6KV/Line-Earth(6K/10K option			
		Conducted	EN61000-4-6	Level 3			
		Magnetic Field	EN61000-4-8	Level 4 >95% dip 0.5 periods, 30% dip 25 periods,			
		Voltage Dine and Interruptions					
		Voltage Dips and Interruptions	EN61000-4-11	>95% interruptions 250 periods			
OTHERS	MTBF	Voltage Dips and Interruptions 749.06Khrs min. Telcordia SR-332(Be					
OTHERS	MTBF DIMENSION						

- 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. Input over voltage only for XLG-200 I series and I 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.

 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.

- 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.
- Products sourced from the Americas regions may not have the CCC/PSE/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
 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

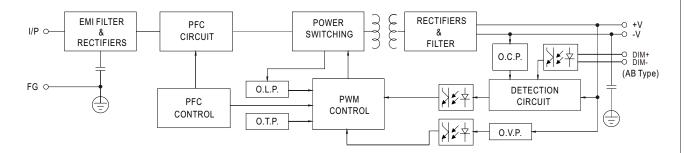
- 14. To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.

 15. If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.



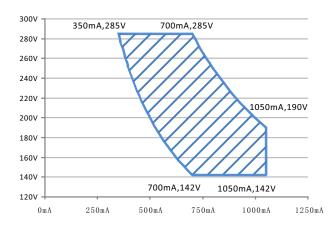
■ BLOCK DIAGRAM

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

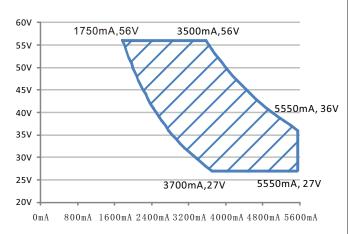


■ DRIVING METHODS OF LED MODULE

% I-V Operating Area



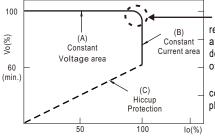
Recommend Performance Region



Recommend Performance Region

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.



 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.

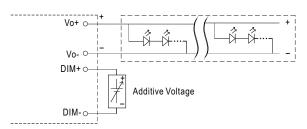
Typical output current normalized by rated current (%)

■ DIMMING OPERATION



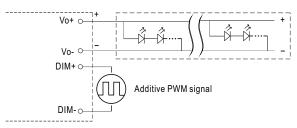
※ 3 in 1 dimming function (for AB-Type)

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A (typ.)



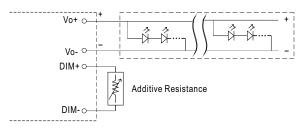
"DO NOT connect "DIM- to Vo-"

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

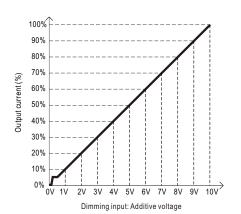


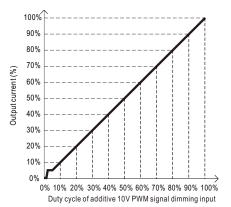
"DO NOT connect "DIM- to Vo-"

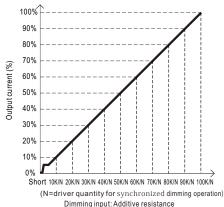
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"





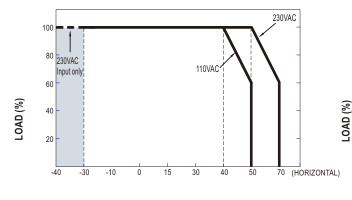


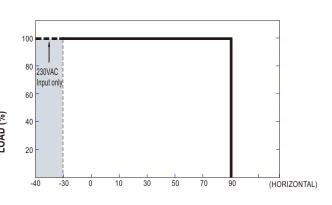
Note: 1. Min. dimming level is about 8% and the output current is not defined when 0% < Iout < 8%.

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-200 operates in Constant Power mode with the rated current the maximum workable Ta is $50\,^{\circ}\mathrm{C}$ (Typ. 230VAC) or $40\,^{\circ}\mathrm{C}$ (typ.110VAC) Below 110VAC@30°C may retry to 2nd setup

■ STATIC CHARACTERISTIC

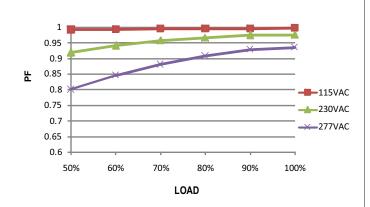
100 60 50 40 100 110 180 200 220 240 260 280 INPUT VOLTAGE (V) 60Hz

■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

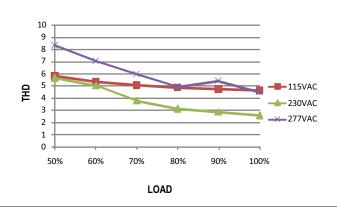
C

Constant Current Mode



■ TOTAL HARMONIC DISTORTION (THD)

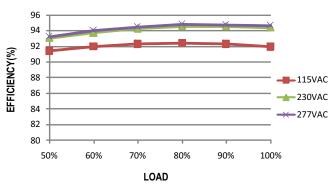
※ XLG-200-L Model. Tcase at 75°C



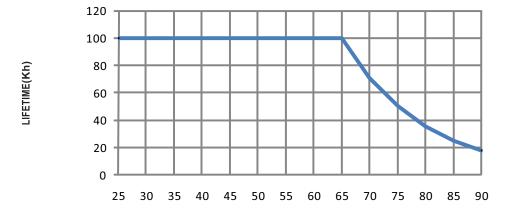
■ EFFICIENCY vs LOAD

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

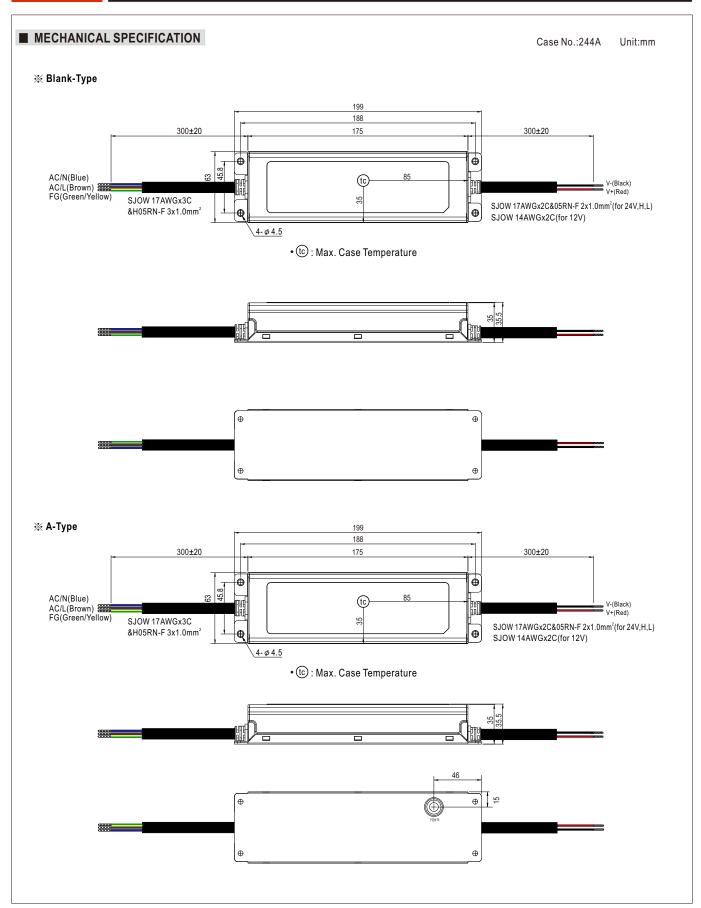


■ LIFE TIME

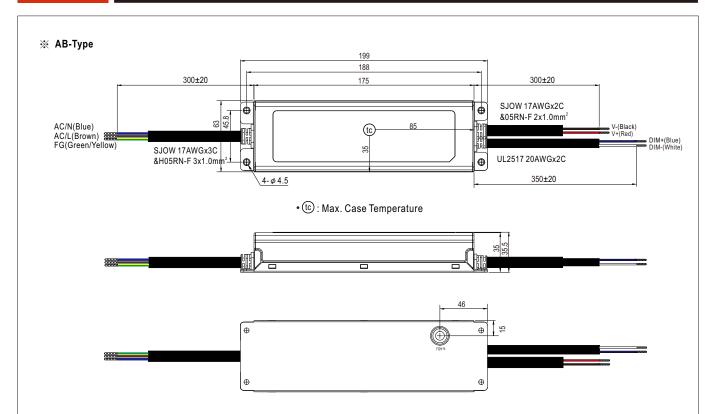


Tcase ($^{\circ}\!\mathbb{C}$)









■ INSTALLATION MANUAL

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