

#### 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  $-40^{\circ}C + 90^{\circ}C$  case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world. XLG-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

<u>XLG</u> - <u>200</u> I - L	
	Function options
	Rated output voltage(12/24V ,or L/H types)
	f I: for India version(by request with Input over voltage protection)
	$\int$ : For standard version
	Rated wattage
	Series name

Туре	Function	Note
Blank	Io and Vo fixed.(For harsh environment)	By request
A	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



#### SPECIFICATION

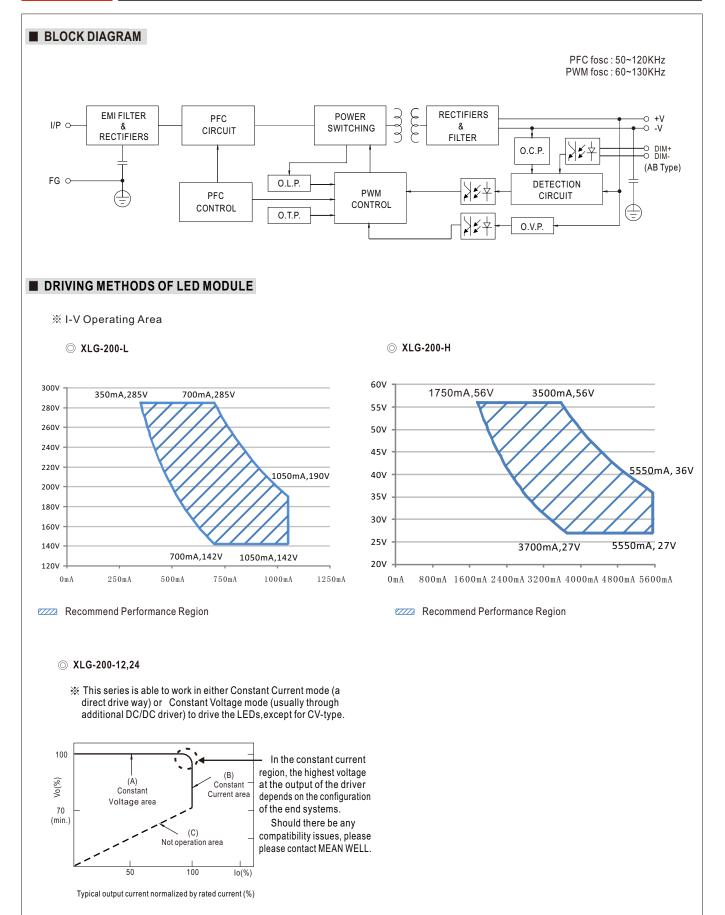
MODEL		XLG-200 -12-		XLG-200 -24-				
	DC VOLTAGE	12V		24V				
	CONSTANT CURRENT REGION Note.2	8.4~ 12V		16.8~ 24V				
	RATED CURRENT (Default)	16A		8.3A				
	RATED POWER	192W		199.2W				
	RIPPLE & NOISE (max.) Note.3			240mVp-p				
	CURRENT ADJ. RANGE	Adjustable for A-Type only (via the built-in p	,					
		8~16A 4.15~8.3A						
OUTPUT	VOLTAGE TOLERANCE Note.4	±3.0% ±2.0%						
	LINE REGULATION	±0.5% ±0.5%						
	LOAD REGULATION	±2% ±1%						
	SETUP, RISE TIME Note.6	500ms, 100ms/230VAC, 1200ms, 100ms/1	15VAC					
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC						
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE POWER FACTOR	47~63Hz						
	TOTAL HARMONIC DISTORTION	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load THD<10%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)						
INPUT	EFFICIENCY (Typ.)	92%	· · ·	01%				
	AC CURRENT							
	INRUSH CURRENT(Typ.)	2.2A / 115VAC 1.1A / 230VAC 0.9A/277VAC COLD START 65A(twidth=550µs measured at 50% lpeak) at 230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A							
	MAX. No. of PSUS on 16A CIRCUIT BREAKER	3 units (circuit breaker of type B) / 6 units (c	circuit breaker of type C) at	230VAC				
	LEAKAGE CURRENT	<0.75m4/277\/AC						
			<0.75mA/277VAC					
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W(for stand	dard version)					
	OVER CURRENT	110~160% for CV type,95~108% for other ty	/pe					
		CV-type: Hiccup mode only; Other type: Hick	cup or constant current lim	iting; Recovers autor	natically after fault condition is removed			
	SHORT CIRCUIT	CV-type: Hiccup mode only; Other type: Hicc			natically after fault condition is removed			
PROTECTION	OVER VOLTAGE	13.5 ~ 18V		27 ~ 34V				
		Shut down output voltage, re-power on to r	recover					
	INPUT OVER VOLTAGE	320 ~ 390VAC (Shut down output voltage whe Can survive input voltage stress of 440Vac f			overs automatically after fault condition is remo Il series)			
	OVER TEMPERATURE	Shut down output voltage, re-power on to r	recover					
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to " OUTP		IRE" section)				
	MAX. CASE TEMP.	Tcase=+90°C		,				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing						
ENVIRONMENT	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 72	2min. each along X, Y, Z a	(es				
	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 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						
EMC SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/F						
SALLING	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500						
		Parameter	Standard		Test Level/Note			
		Conducted	BS EN/EN55015(CISP	R15) .GB/T 17743				
	EMC EMISSION	Radiated	BS EN/EN55015(CISP	1.				
		Harmonic Current	BS EN/EN61000-3-2 ,0	<i>,</i> ,	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3					
		BS EN/EN61547						
		Parameter	Standard		Test Level/Note			
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact			
		Radiated	BS EN/EN61000-4-3		Level 3			
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-4		Level 3			
		Surge	BS EN/EN61000-4-5		4KV/Line-Line 6KV/Line-Earth(6K/10K option			
		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	2300.1K hrs min. Telcordia SR-332 (Bellcore) ; 200.7Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	199*63*35.5mm (L*W*H)						
	PACKING	0.85Kg;16pcs /14.2Kg /0.75CUFT						
NOTE	<ol> <li>Please refer to "DRIVING M</li> <li>Ripple &amp; noise are measurer</li> <li>Tolerance : includes set up t</li> <li>De-rating may be needed ur</li> <li>Length of set up time is measurer</li> <li>And (2E/ENEC/CB is availal</li> <li>The driver is considered as a complete installation, the fina (as available on https://www</li> <li>This series meets the typical</li> <li>Please refer to the warranth 11. The ambient temperature d</li> <li>For any application note an https://www.meanwell.com</li> <li>To for any application set to the temperature of the set of the set</li></ol>	latest ErP regulation for lighting fixture, this	<sup>4</sup> type). sted pair-wire terminated v. TIC CHARACTERISTIC" e driver may lead to increa (CSA certificate. ation with final equipment EMC Directive on the con t_en.pdf) on when Tcase, particular tp://www.meanwell.com and of 5℃/1000m with fa SE/BIS/KC logo. Please c t, please refer our user ma st LED driver can only be u	with a 0.1uf & 47uf pa sections for details. use of the set up time. Since EMC perform uplete installation aga ty (c) point (or TMP, p n models for operatin ontact your MEAN W anual before using. sed behind a switch v	rallel capacitor. ance will be affected by the in. ver DLC), is about 75°C or less. g altitude higher than 2000m(6500ft). ELL sales for more information.			
	15. If you need the NOM (Mexi	co) certificate, Please contact MEAN WELL sider build in using to comply with Type HL a	sales representative for d	etails.	. , ,			



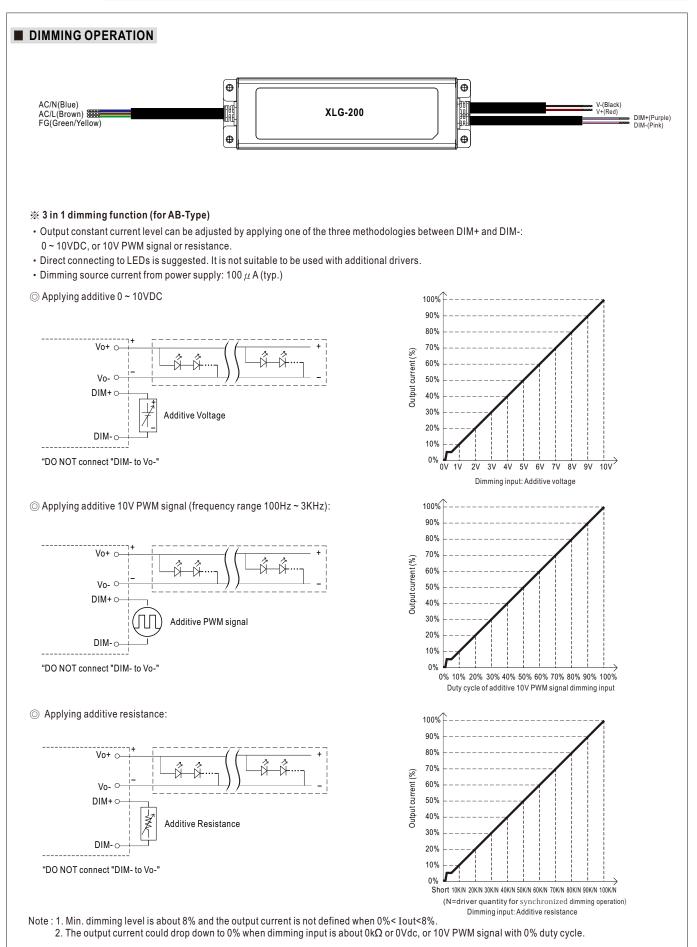
#### SPECIFICATION

		XLG-200 -L-	X	LG-200 🗌 -H- 🗌			
	RATED CURRENT (Default)	700mA	3	500mA			
	RATED POWER	200W	2	00W			
	CONSTANT CURRENT REGION Note.2	142~285V	2	7 ~ 56V			
	FULL POWER CURRENT RANGE	700~1050mA	3	3500~5550mA			
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)						
	0 0						
	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					
	VOLTAGE RANGE Note.3	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)					
	FREQUENCY RANGE	47 ~ 63Hz					
		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)					
		THD< 10% (@ load≧50% at 115VAC/230VAC ,@load≧75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
	TOTAL HARMONIC DISTORTION						
INPUT	EFFICIENCY (Typ.)	94% 93%					
		2.2A / 115VAC 1.1A / 230VAC	0.9A / 277VAC	070			
	AC CURRENT (Typ.)						
	INRUSH CURRENT(Typ.)	COLD START 65A(twidth=550µs measured	reu at 50% ipeak) at 230VAC; Pe				
	MAX. NO. of PSUs on 16A	3 unit(circuit breaker of type B) / 6 unit	ts(circuit breaker of type C) at 2	230VAC			
	CIRCUIT BREAKER	,					
	LEAKAGE CURRENT	<0.75mA/277VAC					
	STANDBY	Standby power consumption <0 FW/6		tandard vorsion)			
	POWER CONSUMPTION	Standby power consumption <0.5W fo	or AB-Type(Dimining OFF)(for s	stanuaru version)			
	SHORT CIRCUIT	Hiccup mode or Constant current limit	ing, recovers automatically after	r fault condition is rem	noved		
		301 ~ 360V	<u>,</u>	1 ~ 85V			
	OVER VOLTAGE	Shut down output voltage, re-power or					
PROTECTION					are automatically ofter fault condition is remove		
	INPUT OVER VOLTAGE	Can survive input voltage stress of 44			ers automatically after fault condition is remove		
	OVER TEMPERATURE	Shut down output voltage, re-power of		Diage only for ALG-20	or series)		
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "O		IPE" contian)			
			OTFOT LOAD VS TEIVIFERATO	JRE Section)			
	MAX. CASE TEMP.	Tcase=+90°C					
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-conde	ensing				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)					
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period	for 72min. each along X, Y, Z	axes			
SAFETY &	SAFETY STANDARDS Note.5 WITHSTAND VOLTAGE ISOLATION RESISTANCE	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 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC I/P-O/P. J/P-FG. O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
EMC	EMC EMISSION	Compliance to BS EN/EN55015, BS E		ad>50%). BS EN/EN	61000-3-3		
		Parameter	Standard		Test Level/Note		
		Conducted	BS EN/EN55015(CISF	D15) CD/T 177/2			
	EMC EMISSION	Radiated	BS EN/EN55015(CISF				
		Harmonic Current	BS EN/EN61000-3-2,	GB1/625.1			
					Class C @load≥50%		
		Voltage Flicker	BS EN/EN61000-3-3				
					Class C @load≥50%		
		Voltage Flicker			Class C @load≥50%		
		Voltage Flicker BS EN/EN61547	BS EN/EN61000-3-3		Class C @load≥50%		
		Voltage Flicker BS EN/EN61547 Parameter	BS EN/EN61000-3-3 Standard		Class C @load≥50%  Test Level/Note		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD	BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2		Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	BS EN/EN61000-3-3           Standard           BS EN/EN61000-4-2           BS EN/EN61000-4-3           BS EN/EN61000-4-4		Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	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		Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 3 Level 3 Level 3 4KV/Line-Line 6KV/Line-Earth(6K/10K option		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	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		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		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	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		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		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	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		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		
	EMC IMMUNITY	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	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	MIL-HDBK-217F (25	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		
OTHERS		Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-3-3           Standard           BS EN/EN61000-4-2           BS EN/EN61000-4-3           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		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		
OTHERS	MTBF DIMENSION	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	BS EN/EN61000-3-3           Standard           BS EN/EN61000-4-2           BS EN/EN61000-4-3           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		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		
	MTBF DIMENSION PACKING 1. All parameters NOT speciall	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2300.1K hrs min. Telcordia SR-332 199*63*35.5mm (L*W*H) 0.85Kg;16pcs/14.2Kg/0.75CUFT y mentioned are measured at 230VAC	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/EN61000-4-6           BS EN/EN61000-4-8           BS EN/EN61000-4-11           2 (Bellcore) ; 200.7Khrs min.	MIL-HDBK-217F (25	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 °C)		
OTHERS NOTE	MTBF         DIMENSION         PACKING         1. All parameters NOT speciall         2. Please refer to "DRIVING M         3. De-rating may be needed ut         4. Length of set up time is mee         5. XLG-2001 series without UL         6. The driver is considered as complete installation, the fin (as available on https://www         7. This series meets the typical         8. Please refer to the warrantly         9. The ambient temperature de         10. To fulfill requirements of the the mains.         11. Products sourced from the 12. For any application note ar https://www.meanwell.com	Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2300.1K hrs min. Telcordia SR-332 199*63*35.5mm (L*W*H) 0.85Kg;16pcs/14.2Kg/0.75CUFT y mentioned are measured at 230VAC ETHODS OF LED MODULE". der low input voltages. Please refer to asured at first cold start. Turning ON/OF /CSA certificate. a component that will be operated in cc al equipment manufacturers must re-qu meanwell.com//Upload/PDF/EMI_state iffe expectancy of >50,000 hours of op statement on MEAN WELL's website a erating of 3.5°C/1000m with fanless moo latest ErP regulation for lighting fixture Americas regions may not have the CC of IP water proof function installation cc	BS EN/EN61000-3-3           Standard           BS EN/EN61000-4-2           BS EN/EN61000-4-3           BS EN/EN61000-4-3           BS EN/EN61000-4-4           BS EN/EN61000-4-4           BS EN/EN61000-4-5           BS EN/EN61000-4-6           BS EN/EN61000-4-6           BS EN/EN61000-4-8           BS EN/EN61000-4-8           BS EN/EN61000-4-11           2 (Bellcore) ; 200.7Khrs min.	MIL-HDBK-217F (25 of ambient temperatur sections for details. ase of the set up time t. Since EMC perform mplete installation aga rly ⓒ point (or TMP, ţ n models for operating used behind a switch contact your MEAN W anual before using.	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV cor Level 3 4KV/Line-Line 6KV/Line-Earth(6K/' Level 3 4KV/Line-Line 6KV/Line-Earth(6K/' Level 3 Level 4 >95% dip 0.5 periods, 30% dip 25 >95% interruptions 250 periods °C) *e ance will be affected by the in. ber DLC), is about 75°C or less. g altitude higher than 2000m(6500f without permanently connected to ELL sales for more information.		

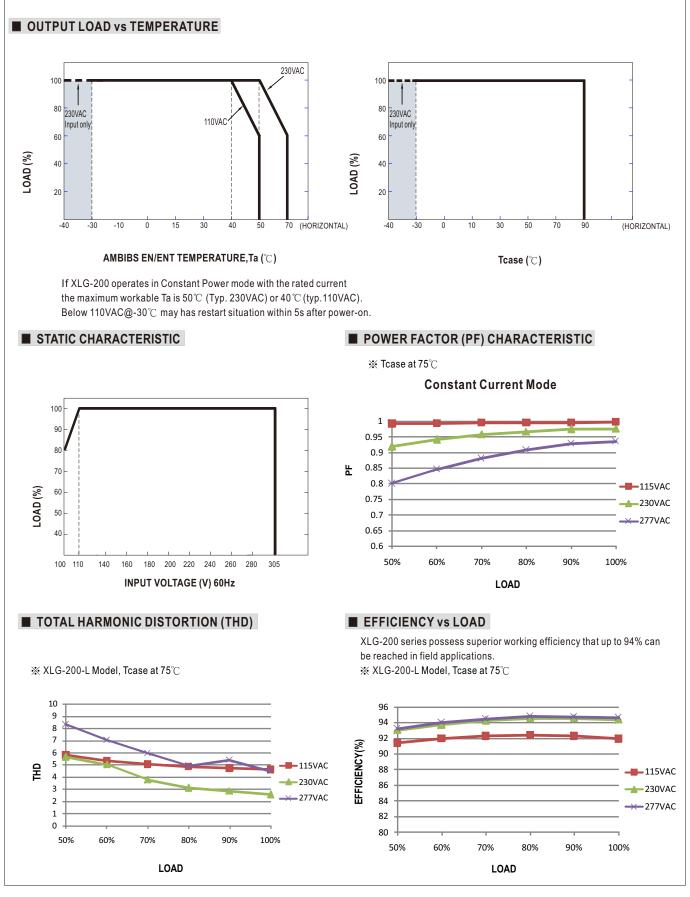












File Name:XLG-200-SPEC 2024-10-11



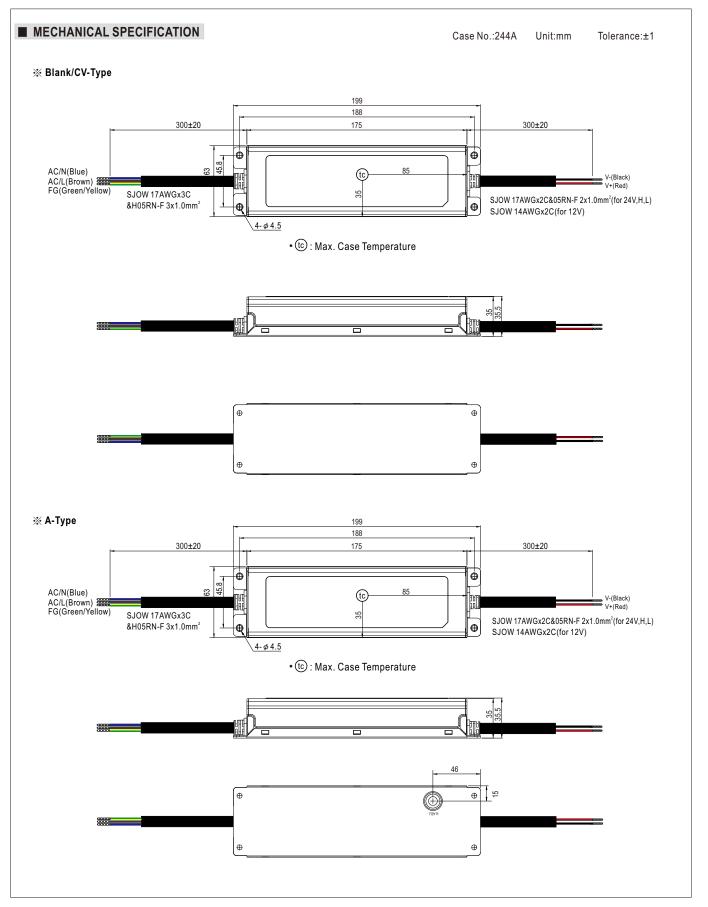


LIFETIME(Kh)

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100\\
80\\
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25 30 35 40 45 50 55 60 65 70 75 80 85 90
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Tcase (° $\mathbb{C}$  )







#### 200W Constant Power Mode LED Driver

