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### 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-150 series is a 150W LED AC/DC driver featuring the constant power mode.XLG-150 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 12500mA. Thanks to the high efficiency up to 93%, 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-150 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

XLG - 150 I - L -
Function options
Rated output voltage(12/24V or L/M/H types)
I: for India version(by request with Input over voltage protection)
1 : 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

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-150 -24-					
	DC VOLTAGE	12V		24V			
-	CONSTANT CURRENT REGION Note.2	8.4~ 12V		16.8~ 24V			
	RATED CURRENT	12.5A		6.25A			
Ī	RATED POWER	150W		150W			
l l	RIPPLE & NOISE (max.) Note.3			240mVp-p			
		Adjustable for A-Type only (via the built-	in potentiometer)	= · · · · · F F			
	CURRENT ADJ. RANGE	6.5~ 12.5A	in potontioniotor)	3.2~ 6.25A			
-							
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, 100m	ns/115VAC				
	HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC					
		100 ~ 305VAC 142 ~ 431VDC					
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load					
	TOTAL HARMONIC DISTORTION	THD< 10%(@load≧50%/115VC,230VA	C: @load≧75%/277VAC)				
ирит 🕴	EFFICIENCY (Typ.)	91.5% 93%					
	AC CURRENT						
-	INRUSH CURRENT(Typ.)						
-		COLD START 50A(twidth=500µs measured at 50% lpeak) at 230VAC; Per NEMA 410					
	MAX. No. of PSUs on 16A	4 units (circuit breaker of type B) / 8 unit	ts (circuit breaker of type C)	) at 230VAC			
	CIRCUIT BREAKER						
	LEAKAGE CURRENT	<0.75mA / 277VAC					
	NO LOAD	No load power consumption of EW/fer	tandard varaian)				
	POWER CONSUMPTION	No load power consumption <0.5W(for s	standard version)				
		95 ~ 108%					
	OVER CURRENT	Hiccup mode or constant current limiting	1. recovers automatically after	er fault condition is rem	oved		
l l	SHORT CIRCUIT	Hiccup mode or constant current limiting	· · · · · · · · · · · · · · · · · · ·				
ROTECTION	SHOKT CIRCUIT	13.5 ~ 18V	, recovers automatically are	27 ~ 34V	0060		
NOTECTION	OVER VOLTAGE			21~340			
-		Shut down output voltage, re-power on t		1			
	INPUT OVER VOLTAGE Note.7				overs automatically after fault condition is remove		
		Can survive input voltage stress of 440V		ах			
	OVER TEMPERATURE	Shut down output voltage, re-power on t	o recover				
	WORKING TEMP.	Tcase=-40 ~ +90 $^\circ\mathrm{C}$ (Please refer to " OL	JTPUT LOAD vs TEMPERAT	TURE" section)			
	MAX. CASE TEMP.	Tcase=+90°C					
l l	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
INVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.06%/C (0~60°C)					
-	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
	TIDI STITUT						
		UL8750(type"HL"), UL879,CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.1, GB19510.14;EAC TP TC 004; J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61347-2-13,IS15885(Part2/Sec13)					
	SAFETT STANDARDS Note.				(001047-2-10,1010000(1 a1/2/00010)		
-	WITHSTAND VOLTAGE	(for XLG-150l 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					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms /					
		Parameter	Standard		Test Level/Note		
		Conducted	BS EN/EN55015(CIS	PR15) ,GB/T17743			
	EMC EMISSION	Radiated	BS EN/EN55015(CIS	PR15) ,GB/T17743			
		Harmonic Current	BS EN/EN61000-3-2	,GB/T17625.1	Class C @load≥50%		
		Voltage Flicker	BS EN/EN61000-3-3				
SAFETY &		BS EN/EN61547					
EMC		Parameter	Standard		Test Level/Note		
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-2 BS EN/EN61000-4-3		Level 2, and air ; Level 2, and contact		
	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 Magnetic Field	BS EN/EN61000-4-6		Level 2		
		Magnetic Field	BS EN/EN61000-4-8		Level 4		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	1	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	MTDE	• · · ·					
OTHERS	MTBF	712.17K hrs min. Telcordia SR-332 (Bellcore); 213.3Khrs min. MIL-HDBK-217F (25°C)					
JIIERO	DIMENSION	180*63*35.5mm (L*W*H)					
	PACKING	0.8Kg;16pcs / 13.4Kg /0.67CUFT					
IOTE	<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 up</li> <li>Length of set up time is mea</li> <li>Input over voltage only for X</li> <li>The driver is considered as a complete installation, the fin</li> <li>The ambient temperature dis</li> </ol>	y mentioned are measured at 230VAC in ETHODS OF LED MODULE". d at 20MHz of bandwidth by using a 12" olerance, line regulation and load regula ider low input voltages. Please refer to " usured at first cold start. Turning ON/OFF LG-150 I series and I series without UL a component that will be operated in cor al equipment manufacturers must re-quu rating of 3.5°C/1000m with fanless modi y statement on MEAN WELL's website a	<sup>1</sup> twisted pair-wire terminate tion. STATIC CHARACTERISTI <sup>2</sup> the driver may lead to incr /CSA certificate. mbination with final equipme alify EMC Directive on the c els and of 5°C/1000m with	d with a 0.1uf & 47uf p C" sections for details. rease of the set up time ent. Since EMC perform complete installation ag fan models for operatin	arallel capacitor. e. nance will be affected by the ain.		
	<ol> <li>This series meets the typic</li> <li>Products sourced from the</li> <li>For any application note an https://www.meanwell.com/</li> <li>To fulfill requirements of the</li> <li>If you need the NOM (Mexi</li> </ol>	al life expectancy of >50,000 hours of op Americas regions may not have the CC d IP water proof function installation cau Upload/PDF/LED_EN.pdf	peration when Tcase, partic C/PSE/BIS/KC logo. Please tition, please refer our user i this LED driver can only be ELL sales representative fo	ularly (c) point (or TMF e contact your MEAN V manual before using. e used behind a switch r details.	VELL sales for more information.		



## 150W Constant Power Mode LED Driver

SPECIFI	CATION						
MODEL		XLG-150L	XLG-150M	XLG-150H-			
	RATED CURRENT	700mA					
	RATED POWER	150W	150W	150W			
	CONSTANT CURRENT REGION	120~214V	60 ~ 107V	27 ~ 56V			
OUTPUT	FULL POWER CURRENT RANGE	700~1050mA	1400~2100mA	2680~4170mA			
	OPEN CIRCUIT VOLTAGE (max.)	225V	115V	60V			
OUTPUT		Adjustable for A/AB-Type only (via the buil	t-in potentiometer)				
	CURRENT ADJ. RANGE	350~1050mA	700~2100mA	1400~4170mA			
	CURRENT RIPPLE	4.0%(@ full load)	3.0%(@ full load)	3.0%(@ full load)			
	CURRENT TOLERANCE	±5%					
	SET UP TIME	500ms/230VAC, 1200ms/115VAC					
	VOLTAGE RANGE Note.5	100 ~ 305VAC 142VDC ~ 431VDC					
	VOLIAGE RANGE NOTE.J	(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					
		(Please refer to "Power Factor Characteris	/				
	TOTAL HARMONIC DISTORTION	THD<10% (@ load≧50% at 115VAC/230VAC ,@load≧75% at 277VAC)					
		Please refer to "TOTAL HARMONIC DISTORTION (THD)" section					
NDUT	EFFICIENCY (Typ.)	93%	92.5%	92%			
NPUT	AC CURRENT (Typ.)	1.8A/115VAC 1.0A/230VAC 0.8A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START50A(twidth= $500 \mu s$ measured	at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A	4 unit(circuit breaker of type B) / 8 units(ci	rcuit breaker of type C) at 230VAC				
	CIRCUIT BREAKER	4 unit(circuit breaker of type B) / 8 units(circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	<0.75mA/277VAC					
	STANDBY POWER						
	CONSUMPTION Note.14	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 rer	noved			
	OVER VOLTAGE	230 ~ 265V	128~ 150V	61 ~ 85V			
		Shut down output voltage, re-power on to	recovery				
ROTECTION	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage wh	en the input voltage exceeds protection voltage, rec	covers automatically after fault condition is remove			
		Can survive input voltage stress of 440Vac	c 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 "OUTF	PUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C					
	WORKING HUMIDITY	20 ~ 95% RH non-condensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80 $^\circ\mathrm{C}$ , 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.06%/°C (0~60°C)					
	SAFETY STANDARDS Note.7 WITHSTAND VOLTAGE ISOLATION RESISTANCE	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-150I 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, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
	ISOLATION REGISTANCE	Parameter	Standard	Test Level/Note			
		Conducted	BS EN/EN55015(CISPR15) ,GB/T17743				
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15), GB/T17743				
		Harmonic Current	BS EN/EN61000-3-2 ,GB/T17625.1	Class C @load≥50%			
		Voltage Flicker	BS EN/EN61000-3-3				
AFETY &		BS EN/EN61547	DS EN/EN01000-5-5				
EMC		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 2			
		EFT/Burst	BS EN/EN61000-4-4	Level 3			
	EMC IMMUNITY	Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth(6K/10K option)			
		Conducted	BS EN/EN61000-4-6	Level 2			
		Magnetic Field	BS EN/EN61000-4-8	Level 4			
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods,			
	MTBF	712.17K hrs min. Telcordia SR-332	(Bellcore); 213.3Khrs min. MIL-HDE	>95% interruptions 250 periods			
	LIFETIME Note.4						
OTHERS	DIMENSION	4 50000 rrs min. 180*63*35.5mm (L*W*H)					
	PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT					
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>Input over voltage only for XLG-150 I series , and I series without UL/CSA certificate.</li> <li>The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the</li> </ol>						
	<ol> <li>9. The ambient temperature d</li> <li>10. Please refer to the warran</li> <li>11. This series meets the typi</li> <li>12. Products sourced from the</li> </ol>	erating of 3.5°C/1000m with fanless mode ty statement on MEAN WELL's website at cal life expectancy of >50,000 hours of ope Americas regions may not have the CCC not IP water proof function installation cauti /Upload/PDF/LED_EN.pdf	eration when Tcase, particularly ( point (or TN /PSE/BIS/KC logo. Please contact your MEAN on, please refer our user manual before using.	ting altitude higher than 2000m(6500ft). /IP, per DLC), is about 75 $^\circ$ C or less.			









2. The output current could drop down to 0% when dimming input is about  $0^{k}$  route  $0^{k}$ .







## 150W Constant Power Mode LED Driver







File Name:XLG-150-SPEC 2021-07-26







#### ■ INSTALLATION MANUAL

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