



## 150W Constant Power Mode with DALI-2 LED Driver

# **XLG-150-DA2**























## 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
- DALI-2 Dimming with minimum level 8%
- 12V/250mA Auxiliary power available(optional)
- India (EESL) version with Input Over Voltage Protection can survive input voltage stress of 440Vac for 48 hours
- Protection functions: SCP/OTP
- Life time >50,000 hrs. and 5 years warranty

## Applications

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

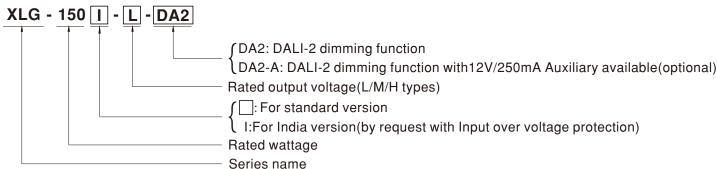
### GTIN CODE

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

## Description

XLG-150-DA2 series is a 150W LED AC/DC driver featuring the constant power mode with DALI-2 dimming function. XLG-150-DA2 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 4170mA. Thanks to the high efficiency up to 93%, 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-150-DA2 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



Type	Function	Note
DA2	DALI-2 control technology with Io adjustable via built-in potentiometer	In Stock
DA2-A	DALI-2 control technology with Io adjustable via built-in potentiometer and auxiliary power 12V/250mA	by request

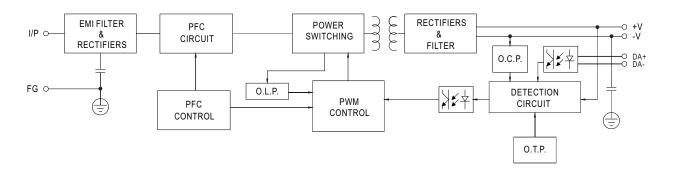
# 150W Constant Power Mode with DALI-2 LED Driver XLG-150-DA2 series

<b>SPECIFI</b>	CATION					
MODEL		XLG-150 -L-	XLG-150 -M-	XLG-150 -H-		
	RATED CURRENT	700mA	1400mA	2800mA		
ОИТРИТ	RATED POWER	150W	150W	150W		
	CONSTANT CURRENT REGION Note.2		60 ~ 107V	27 ~ 56V		
	FULL POWER CURRENT RANGE	700~1050mA	1400~2100mA	2680~4170mA		
	OPEN CIRCUIT VOLTAGE (max.)	240V	120V	65V		
		(Via the built-in potentiometer)				
	CURRENT ADJ. RANGE	350~1050mA	700~2100mA	1400~4170mA		
	CURRENT RIPPLE	4.0%(@ full load)	·			
	CURRENT TOLERANCE	±5%				
	AUXILIARY DC OUTPUT	12V@250mA tolerance ±10%, ripple 200mVp-p (only for DA2-A-type)				
	SET UP TIME	500ms/230VAC, 1200ms/115VAC				
INPUT		100 ~ 305VAC 142VDC ~ 431VDC				
	VOLTAGE RANGE Note.4	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load				
	TOWERTACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section)				
	TOTAL HARMONIC DISTORTION	THD<10% (@ load≥50% at 115VAC/230VAC ,@load≥75% at 277VAC)				
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
	EFFICIENCY (Typ.) Note.14	93%	92.5%	92%		
	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 0.8A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=500µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A	4 unit(circuit breaker of type B) / 6 units(circuit breaker of type C) at 230VAC				
	CIRCUIT BREAKER	4 unit circuit breaker of type b) / 0 units (circuit breaker of type c) at 200 VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY POWER	Standby power consumption <0.5W (Dimming OFF, Only for standard version DA2-type)				
	CONSUMPTION	Standard Version DAZ-type)				
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, r	ecovers automatically after fault condition is rem	oved		
PROTECTION	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage whe	en the input voltage exceeds protection voltage,reco	overs automatically after fault condition is removed)		
111012011011	INI OT OVER TOEINGE NOW.	Can survive input voltage stress of 440Vac for 48 hours				
	OVER TEMPERATURE	Stage 1: Derating to 75% loading; stage 2: Derating to 50% loading. recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTP	UT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+90°C				
E111/10 01111 E117	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.06%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 7	'2min, each along X, Y, Z axes			
		UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency				
	SAFETY STANDARDS	installations(DC Input: 176-280Vdc) independent ,BS EN/EN62384; GB19510.1, GB19510.14; EAC TP TC 004;				
		IS 15885(Part2/Sec13)(for XLG-150I-DA2 only); IP67 approved				
	DALI STANDARDS	Comply with IEC62386-101,102,207,251,Device type 6(DT6)				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
I		1/1 - 0/1 :5:75KVAO 1/1 - 1 G.ZKVAO 0/				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50		I		
				Test Level/Note		
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50	0VDC / 25°C / 70% RH	Test Level/Note		
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter	0VDC / 25°C / 70% RH Standard			
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743			
SAFFTY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743			
SAFETY & EMC	ISOLATION RESISTANCE	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	0VDC / 25°C / 70% RH  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	 Class C @load≥50%		
	ISOLATION RESISTANCE	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1	  Class C @load≥50%		
	ISOLATION RESISTANCE	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	0VDC / 25°C / 70% RH  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	 Class C @load≥50%		
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	EMC EMISSION	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	0VDC / 25°C / 70% RH  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	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
	ISOLATION RESISTANCE	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	0VDC / 25°C / 70% RH  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	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2		
	EMC EMISSION	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst	0VDC / 25°C / 70% RH  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	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3		
	EMC EMISSION	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge	0VDC / 25°C / 70% RH  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	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3  4KV//Line-Line 6KV//Line-Earth		
	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field	0VDC / 25°C / 70% RH  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	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3  4KV/Line-Line 6KV/Line-Earth Level 2		
	EMC EMISSION	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted	0VDC / 25°C / 70% RH  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	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth Level 2 Level 4		
EMC	EMC EMISSION	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  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/EN61000-4-6  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 2  Level 3  4KV/Line-Line 6KV/Line-Earth  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	EMC EMISSION  EMC IMMUNITY	WP-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  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/EN61000-4-6  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 2  Level 3  4KV/Line-Line 6KV/Line-Earth  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
EMC	EMC EMISSION  EMC IMMUNITY	VP-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  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/EN61000-4-6  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 2  Level 3  4KV/Line-Line 6KV/Line-Earth  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 2316.2Khrs min. Telcordia SR-332 (180*63*35.5mm (L*W*H) 0.8Kg;16pcs/13.4Kg/0.67CUFT nentioned are measured at 230VAC input, rate	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  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/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-11  Bellcore) ; 213.3Khrs min. MIL-HDBK-2	Class C @load≥50%  Test Level/Note  Level 3, 8KV air ; Level 2, 4KV contact  Level 2  Level 3  4KV/Line-Line 6KV/Line-Earth  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
EMC	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (IIII) 180*63*35.5mm (L*W*H)  0.8Kg;16pcs/13.4Kg/0.67CUFT Intentioned are measured at 230VAC input, rate HODS OF LED MODULE*.	0VDC / 25°C / 70% RH  Standard  BS EN/EN55015(CISPR15) , GB/T 17743  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/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-11  Bellcore) ; 213.3Khrs min. MIL-HDBK-2	Class C @load≥50%  Test Level/Note  Level 3, 8KV air ; Level 2, 4KV contact  Level 2  Level 3  4KV/Line-Line 6KV/Line-Earth  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed unde	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (Imput, 1986)  180*63*35.5mm (L*W*H)  0.8Kg;16pcs/13.4Kg/0.67CUFT  Inentioned are measured at 230VAC input, rate HODS OF LED MODULE".  Terance, line regulation and load regulation.  Interiow input voltages. Please refer to "STATIC"	Standard	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3  4KV/Line-Line 6KV/Line-Earth Level 2 Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed unde 5. Length of set up time is measu	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Standard	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3  4KV/Line-Line 6KV/Line-Earth Level 2 Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed unde 5. Length of set up time is measu inside driver is very high, it will 6. Based on IEC 62386-101/102 III 6. Based on IEC 62386-101/102 III	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (I 180*63*35.5mm (L*W*H)  0.8Kg;16pcs/13.4Kg/0.67CUFT  nentioned are measured at 230VAC input, rate: HODS OF LED MODULE".  reance, line regulation and load regulation. rel ow input voltages. Please refer to "STATIC red at first cold start. Turning ON/OFF the driv lead to a longer set up time.  DALI power on timing and interruption regulation.	Standard	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3  4KV/Line-Line 6KV/Line-Earth Level 2 Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed under 5. Length of set up time is measured in the set of the	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Standard	Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3  4KV/Line-Line 6KV/Line-Earth Level 2 Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
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OTHERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed unde 5. Length of set up time is measu inside driver is very high, it will 6. Based on IEC 62386-101/102 I DALI power on function, otherw 7. Input over voltage only for XLC 8. The driver is considered as a c complete installation, the final of (as available on https://www.m 9. The ambient temperature deraf 10. Please refer to the warranty s 11. This series meets the typical I 12. Products sourced from the An 13. For any application note and https://www.meanwell.com/Up 14. The efficiency will drop 1% ba 15. H/M type: RCM is on a volun	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (i)  180*63*35.5mm (L*W*H)  0.8Kg;16pcs/13.4Kg/0.67CUFT  mentioned are measured at 230VAC input, rate HODS OF LED MODULE*.  rance, line regulation and load regulation.  er low input voltages. Please refer to "STATIC ired at first cold start. Turning ON/OFF the drivelad to a longer set unity time.  DALI power on timing and interruption regulation and set on the set up time will be longer than 500ms.  3-150 I series, and I series without UL/CSA ceromponent that will be operated in combinatior requipment manufacturers must re-qualify EMC earnwell.com/I/Upload/PDF/EMI_statement_en ting of 3.5°C/1000m with fanless models and catement on MEAN WELL's website at http://wife expectancy of >50,000 hours of operation venericas regions may not have the CCC/PSE/Blelload/PDF/LED_EN.pdf  issed on auxiliary power version with full load 3 stary basis. Non IC classification Independent tary basis. Non IC classification Independent	Standard  BS EN/EN55015(CISPR15),GB/T 17743  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/EN61000-4-11  Bellcore); 213.3Khrs min. MIL-HDBK-2  and current and 25°C of ambient temperature.  CHARACTERISTIC" sections for details. er may lead to increase of the set up time. Especial cons, the set up time needs to test with a DALI contribution of the set up time installation again. pdf) f5°C/1000m with fan models for operating altitude www.meanwell.com when Tcase, particularly (tc) point (or TMP, per DLC IS/KC logo. Please contact your MEAN WELL sale ase refer our user manual before using.  W condition.  ED control gear is not suitable for residential instal.	Class C @load≥50%  Test Level/Note Level 3, 8kV air; Level 2, 4kV contact Level 3  4kV/Line-Line 6kV/Line-Earth Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods 217F (25°C)  Illy when the temperature roller which can support for I be affected by the higher than 2000m(6500ft).  C), is about 75°C or less. as for more information.		
OTHERS	EMC EMISSION  EMC EMISSION  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed unde 5. Length of set up time is measu inside driver is very high, it will 6. Based on IEC 62386-101/102 I DALI power on function, otherw 7. Input over voltage only for XLG 8. The driver is considered as a c complete installation, the final ic (as available on hitps://www.m 9. The ambient temperature derat 10. Please refer to the warranty s 11. This series meets the typical 12. Products sourced from the An 13. For any application note and I https://www.meanwell.com/Up 14. The efficiency will drop 1% be 15. H/M type: RCM is on a volunt L type: RCM is on a volunt L type: RCM is on a volunt	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (Interpretation of the conducted of t	Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  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/EN61000-4-11  3ellcore); 213.3Khrs min. MIL-HDBK-2  and current and 25°C of ambient temperature.  CHARACTERISTIC" sections for details. er may lead to increase of the set up time. Especial consistency in the set up time needs to test with a DALI control ifficate.  with final equipment. Since EMC performance will be complete installation again. put off) f5°C/1000m with fan models for operating altitude www.meanwell.com www.meanwell.com when Toase, particularly (a) point (or TMP, per DLC IS/KC logo. Please contact your MEAN WELL sale ase refer our user manual before using.  W condition.  LED control gear is not suitable for residential instandards complying with AS/NZS 4417.1	Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 3  4KV/Line-Line 6KV/Line-Earth Level 2 Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods 217F (25°C)  Illy when the temperature roller which can support for I be affected by the higher than 2000m(6500ft). C), is about 75°C or less. ses for more information.		
OTHERS	EMC EMISSION  EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed unde 5. Length of set up time is measu inside driver is very high, it will 6. Based on IEC 62386-101/102 ID DALI power on function, otherw 7. Input over voltage only for XLG 8. The driver is considered as a complete installation, the final of a available on https://www.mu 9. The ambient temperature deraf 10. Please refer to the warranty s 11. This series meets the typical I 12. Products sourced from the An 13. For any application note and I https://www.meanwell.com/Up 14. The efficiency will drop 1% be 15. H/M type: RCM is on a volunt L type: RCM is on a voluntar 16. To fulfill requirements of the is	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (Interpretation of the conducted of t	Standard  BS EN/EN55015(CISPR15), GB/T 17743  BS EN/EN55015(CISPR15), GB/T 17743  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  BS EN/EN61000-4-11  3ellcore); 213.3Khrs min. MIL-HDBK-2  dd current and 25°C of ambient temperature.  CHARACTERISTIC" sections for details. er may lead to increase of the set up time. Especial cons, the set up time needs to test with a DALI contribution of 5°C/1000m with fan models for operating altitude www.meanwell.com when Tease, particularly (c) point (or TMP, per DLC (SIKC logo. Please contact your MEAN WELL sale ase refer our user manual before using.  W condition.  ED control gear is not suitable for residential instandards complying with AS/NZS 4417.1  D driver can only be used behind a switch without	Class C @load≥50%  Test Level/Note  Level 3, 8KV air; Level 2, 4KV contact  Level 3  4KV/Line-Line 6KV/Line-Earth  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods  217F (25°C)  Illy when the temperature roller which can support for least after than 2000m(6500ft).  C), is about 75°C or less. as for more information.  allations; permanently connected to the mains.		
OTHERS	EMC EMISSION  EMC IMMUNITY  MTBF  DIMENSION  PACKING  1. All parameters NOT specially n 2. Please refer to "DRIVING MET 3. Tolerance: includes set up tole 4. De-rating may be needed unde 5. Length of set up time is measu inside driver is very high, it will 6. Based on IEC 62386-101/102 I DALI power on function, otherw 7. Input over voltage only for XLC 8. The driver is considered as a c complete installation, the final of (as available on https://www.m 9. The ambient temperature deral 10. Please refer to the warranty s 11. This series meets the typical I 12. Products sourced from the An 13. For any application note and 11. This series meets will drop 1% be 15. H/M type: RCM is on a volunt 16. To fulfill requirements of the Is 17. This series need to consider.	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50  Parameter  Conducted  Radiated  Harmonic Current  Voltage Flicker  BS EN/EN61547  Parameter  ESD  Radiated  EFT/Burst  Surge  Conducted  Magnetic Field  Voltage Dips and Interruptions  2316.2Khrs min. Telcordia SR-332 (I)  180*63*35.5mm (L*W*H)  0.8Kg;16pcs/13.4Kg/0.67CUFT  mentioned are measured at 230VAC input, rate: HODS OF LED MODULE". rance, line regulation and load regulation. er low input voltages. Please refer to "STATIC I' red at first cold start. Turning ON/OFF the driv lead to a longer set up times. 2-1501 series, and 1 series without UL/CSA cere momponent that will be operated in combination equipment manufacturers must re-qualify EMC eanwell. comi/Upload/PDF/EMI_statement_en ing of 3.5C/1000m with fanless models and c tatement on MEAN WELL's website at http://wife expectancy of >50,000 hours of operations of special or incombination equipment manufacturers must re-qualify EMC eanwell. comi/Upload/PDF/EMI_statement_en mericas regions may not have the CCC/PSE/B IP water proof function installation caution, ple load/PDF/LED_EN_pdf issed on auxililary power version with full load 3 stary basis. Non IC classification Independent: y basis and meets relevant IEC or AS/NZS statest EFP regulation for lighting fixture, this LE	Standard  BS EN/EN55015(CISPR15),GB/T 17743  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/EN61000-4-11  Bellcore); 213.3Khrs min. MIL-HDBK-2  and current and 25°C of ambient temperature.  CHARACTERISTIC" sections for details. er may lead to increase of the set up time. Especial cons, the set up time needs to test with a DALI contribution of the complete installation again. pdf) f5°C/1000m with fan models for operating altitude www.meanwell.com when Tcase, particularly (tc) point (or TMP, per DLC IS/KC logo. Please contact your MEAN WELL sale ase refer our user manual before using.  W condition.  LED control gear is not suitable for residential instal indards complying with AS/NZS 4417.1 D driver can only be used behind a switch without on.	Class C @load≥50%  Test Level/Note  Level 3, 8KV air; Level 2, 4KV contact  Level 3  4KV/Line-Line 6KV/Line-Earth  Level 2  Level 4  >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods  217F (25°C)  Illy when the temperature roller which can support for libe affected by the higher than 2000m(6500ft).  C), is about 75°C or less. as for more information.		



## ■ BLOCK DIAGRAM

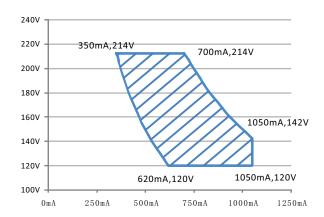
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



## ■ DRIVING METHODS OF LED MODULE

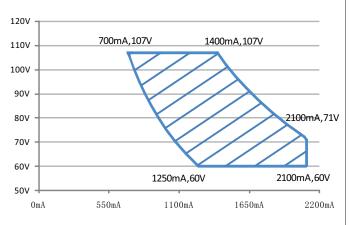
**% I-V Operating Area** 

#### 



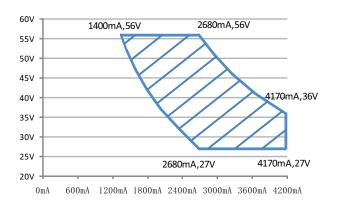
## Recommend Performance Region

#### 



Recommend Performance Region

### XLG-150-H-DA2



Recommend Performance Region



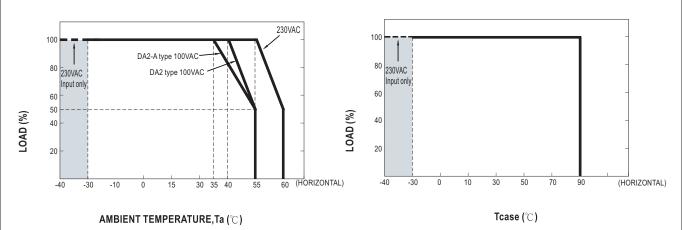
## **■** DIMMING OPERATION



### **\* DALI Interface**

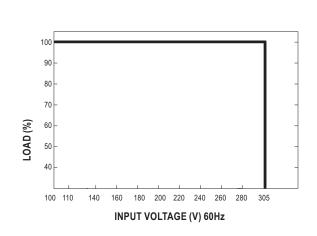
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

## ■ OUTPUT LOAD vs TEMPERATURE



Note:1. The output current must be derated at ultra-high ambient temperature. 2.Below 120VAC@-30°C may has restart situation within 5s after power-on.

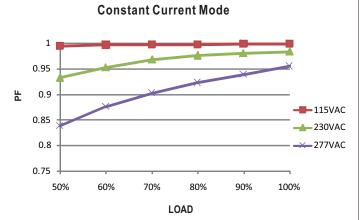
## ■ STATIC CHARACTERISTIC



## **■ POWER FACTOR (PF) CHARACTERISTIC**

※ Tcase at 75°

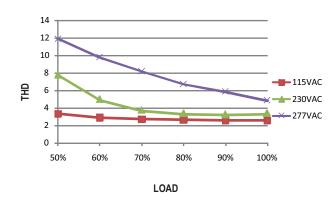
C





## ■ TOTAL HARMONIC DISTORTION (THD)

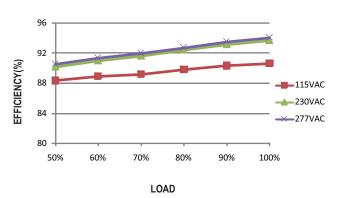
## % XLG-150-L-DA2 Model, Tcase at 75 $^{\circ}$ C



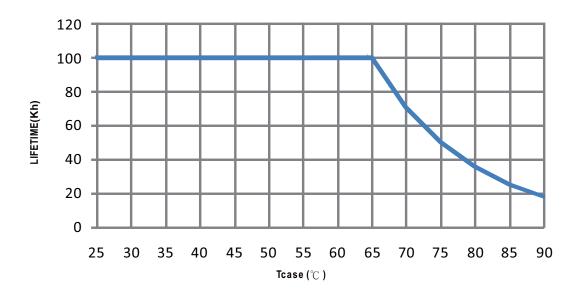
## **■** EFFICIENCY vs LOAD

XLG-150-DA2 series possess superior working efficiency that up to 93% can be reached in field applications.

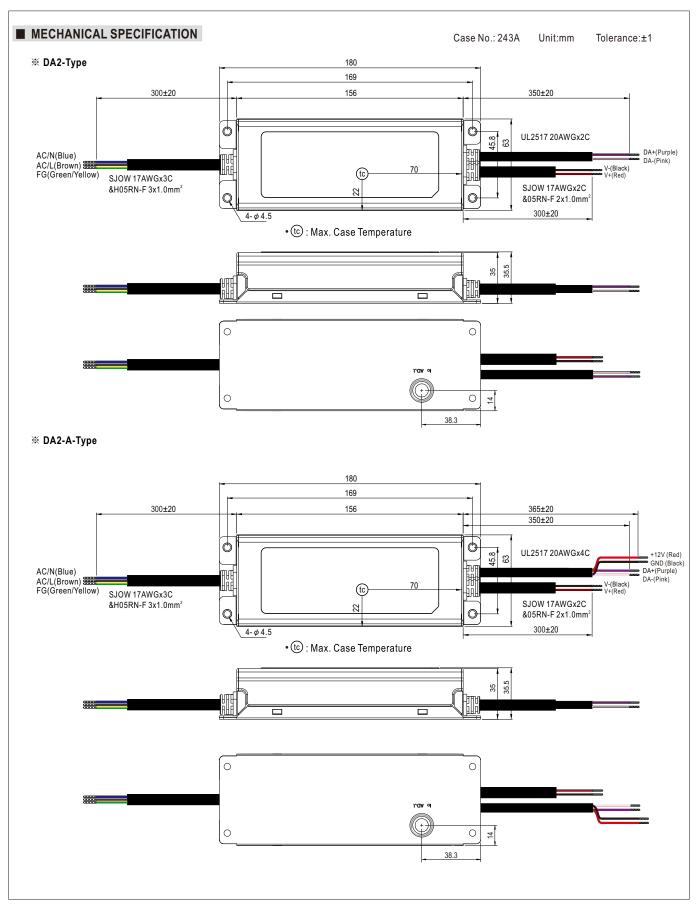
XLG-150-L-DA2 Model, Tcase at  $75^{\circ}$ C



## ■ LIFE TIME



# XLG-150-DA2 series



## ■ Recommend Mounting Direction



## **■ INSTALLATION MANUAL**

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