







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/IOVP
- Life time >50,000 hrs. and 5 years warranty

Description

Applications

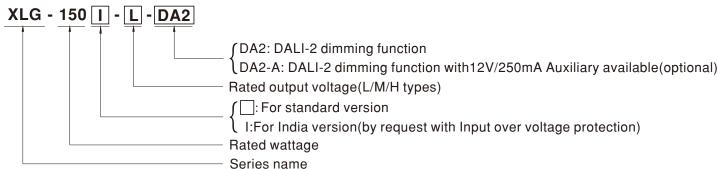
- · Street lighting
- · Floodlight Lighting
- Stage lighting
- · Fishing lighting
- · Horticulture lighting
- Bay lighting
- Type HL for use in class I, Division 2

GTIN CODE

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

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



Туре	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

File Name:XLG-150-DA2-SPEC 2023-03-28

SPECIFICATION

MODEL		XLG-150 -L-	XLG-150 -M-	XLG-150 -H-		
	RATED CURRENT	700mA	1400mA	2800mA		
	RATED POWER	150W	150W	150W		
	CONSTANT CURRENT REGION Note.2		60 ~ 107V	27 ~ 56V		
	FULL POWER CURRENT RANGE		1400~2100mA	2680~4170mA		
ОИТРИТ	OPEN CIRCUIT VOLTAGE (max.)		120V	65V		
	,	(Via the built-in potentiometer)	1			
	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				
		100 ~ 305VAC				
	VOLTAGE RANGE Note.4	(Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	DOMED FACTOR (T)	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)				
	TOTAL HARMONIO DIGTORTION	THD< 10% (@ load≥50% at 115VAC/230	AC,@load≥75% at 277VAC)			
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DIST	ORTION (THD)" section			
	EFFICIENCY (Typ.) Note.14	93%	92.5%	92%		
NPUT	AC CURRENT (Typ.)	1.8A / 115VAC 1.0A / 230VAC 0.8A/2	77VAC			
	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 bleaker of type b) / 6 units(circuit bleaker of type C) at 250VAC				
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dimming OFF, Only for standard version DA2-type)				
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed				
		320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage recovers automatically after fault condition is remove				
ROTECTION	INPUT OVER VOLTAGE Note.7	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				
	OVER TEMIT ERATORE	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	WORKING TEMP	Tcase=-40 ~ +90°C (Please refer to "OUTP	UT LOAD vs TEMPERATURE" section)			
	WORKING TEMP. MAX. CASE TEMP.	`	UT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+90°C	UT LOAD vs TEMPERATURE" section)			
VVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY	Tcase=+90°C 20 ~ 95% RH non-condensing	,			
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY	Tcase=+90°C $20 \sim 95\%$ RH non-condensing $-40 \sim +80$ °C, $10 \sim 95\%$ RH non-condensing	,			
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing $\pm 0.06\%$ °C (0 ~ 60°C)	3			
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION	Tcase=+90°C 20 ~ 95% RH non-condensing $-40 \sim +80^{\circ}\text{C}$, $10 \sim 95\%$ RH non-condensing $\pm 0.06\%$ /°C $(0 \sim 60^{\circ}\text{C})$ $10 \sim 500\text{Hz}$, 5G 12min./1cycle, period for 70	72min. each along X, Y, Z axes	-2-13(EL) appendix J suitable for emergency		
NVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	Tcase=+90°C 20 ~ 95% RH non-condensing $-40 \sim +80^{\circ}\text{C}$, $10 \sim 95\%$ RH non-condensing $\pm 0.06\%$ /°C $(0 \sim 60^{\circ}\text{C})$ $10 \sim 500\text{Hz}$, $5\text{G }12\text{min.}/1\text{cycle}$, period for $7\text{UL}8750(\text{type"HL"})$, CSA C22.2 No. 250.13-	3	() ()		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	Tcase=+90°C $20 \sim 95\%$ RH non-condensing $-40 \sim +80$ °C, $10 \sim 95\%$ RH non-condensing $\pm 0.06\%$ °C $(0 \sim 60$ °C) $10 \sim 500$ Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13-installations(DC Input: 176-280Vdc) independ	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- lent ,BS EN/EN62384; GB19510.1 , GB19510.14; E	() ()		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS	Tcase=+90°C 20 ~ 95% RH non-condensing $-40 \sim +80$ °C, $10 \sim 95\%$ RH non-condensing $\pm 0.06\%$ °C ($0 \sim 60$ °C) $10 \sim 500$ Hz, 5 G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13-installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- lent ,BS EN/EN62384; GB19510.1 , GB19510.14; E ,Device type 6(DT6)	() ()		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	$eq:continuous_continuous$	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- lent ,BS EN/EN62384; GB19510.1 , GB19510.14; E ,Device type 6(DT6) P-FG:1.5KVAC	() ()		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing $\pm 0.06\%$ /°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13-installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1 , GB19510.14; E ,Device type 6(DT6) P-FG:1.5KVAC	AC TP TC 004; IP67 approved		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ± 0.068 /°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13-installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1 , GB19510.14; E ,Device type 6(DT6) P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard	AC TP TC 004; IP67 approved Test Level/Note		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/℃ (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) /P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15) ,GB/T17743	AC TP TC 004; IP67 approved Test Level/Note		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated	72min. each along X, Y, Z axes 112; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) (P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN55015(CISPR15) ,GB/T17743	AC TP TC 004; IP67 approved Test Level/Note		
IVIRONMENT	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) (P-FG:1.5KVAC 0VDC 25°C / 70% RH Standard BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN55015(CISPR15) ,GB/T17743	AC TP TC 004; IP67 approved Test Level/Note Class C @load≥50%		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker	72min. each along X, Y, Z axes 112; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) (P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN55015(CISPR15) ,GB/T17743	AC TP TC 004; IP67 approved Test Level/Note		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/℃ (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	72min. each along X, Y, Z axes 112; ENEC BS EN/EN61347-1, BS EN/EN61347-ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) (P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN61000-3-2 ,GB/T17625.1 BS EN/EN61000-3-3	AC TP TC 004; IP67 approved Test Level/Note Class C @load≥50%		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/℃ (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) (P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN61000-3-2 ,GB/T17625.1 BS EN/EN61000-3-3	AC TP TC 004; IP67 approved Test Level/Note Class C @load≥50%		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ 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	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) (P-FG:1.5KVAC 0VDC /25°C /70% RH Standard BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN55015(CISPR15) ,GB/T17743 BS EN/EN61000-3-2 ,GB/T17625.1 BS EN/EN61000-3-3	AC TP TC 004; IP67 approved Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ 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	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347-ent, BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) (P-FG:1.5KVAC 0VDC /25°C /70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdo) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I/P-O/P:3.75KVAC I/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) 'P-FG:1.5KVAC 0VDC /25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdo) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ 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	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) 7P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level/Note 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		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I/P-O/P:3.75KVAC I/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) /P-FG:1.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level/Note 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		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdo) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ 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	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) 7P-FG:1.5KVAC 0VDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Test Level/Note 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		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/I/P-O/P:3.75KVAC I/P-FG:100M Ohms / 50 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) /P-FG:1.5KVAC OVDC / 25°C / 70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level/Note 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		
AFETY & MC	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type°HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdc) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/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	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) 7P-FG:1.5KVAC 0VDC /25°C/70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8	Test Level/Note 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,		
AFETY &	MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	Tcase=+90°C 20 ~ 95% RH non-condensing -40 ~ +80°C, 10 ~ 95% RH non-condensing ±0.06%/°C (0 ~ 60°C) 10 ~ 500Hz, 5G 12min./1cycle, period for 7 UL8750(type"HL"), CSA C22.2 No. 250.13- installations(DC Input: 176-280Vdo) independ Comply with IEC62386-101,102,207,251 I/P-O/P:3.75KVAC I/P-FG:2KVAC O/ 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	72min. each along X, Y, Z axes 12; ENEC BS EN/EN61347-1, BS EN/EN61347- ent ,BS EN/EN62384; GB19510.1, GB19510.14; E ,Device type 6(DT6) 7P-FG:1.5KVAC 0VDC /25°C/70% RH Standard BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN55015(CISPR15), GB/T17743 BS EN/EN61000-3-2, GB/T17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-8	AC TP TC 004; IP67 approved Test Level/Note 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		

NOTE

- 2. Please refer to "DRIVING METHODS OF LED MODULE".
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
- De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
 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. Especially when the temperature inside driver is very high, it will lead to a longer set up time.
- 6. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be longer than 500ms.
- 7. Input over voltage only for XLG-150 I series, and I series without UL/CSA certificate.
- 8. 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.

 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. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 11. 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.

 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.

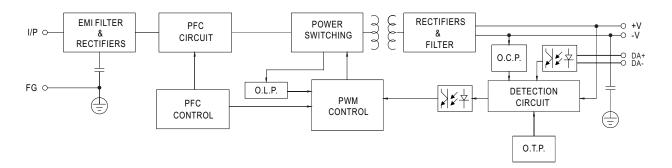
 13. For any application note and IP water proof function installation caution, please refer our user manual before using.
- https://www.meanwell.com/Upload/PDF/LED_EN.pdf
- 14. The efficiency will drop 1% based on auxiliary power version with full load 3W condition.

 15. H/M type: RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations:
 - L type: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1
 - Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



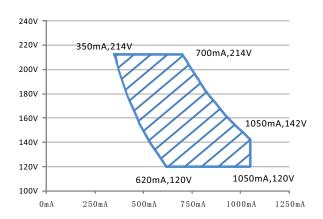
■ BLOCK DIAGRAM

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

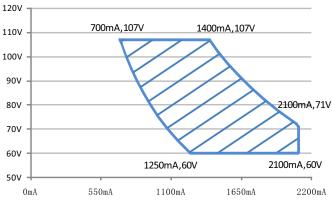


■ DRIVING METHODS OF LED MODULE

% I-V Operating Area

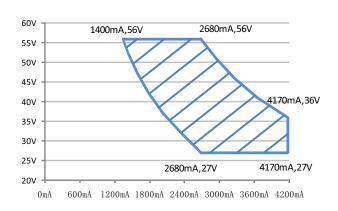


Recommend Performance Region



Recommend Performance Region

XLG-150-H-DA2



Recommend Performance Region



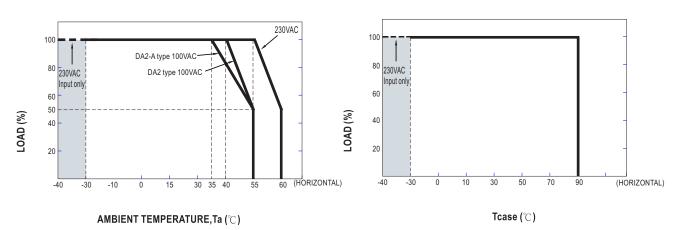
■ DIMMING OPERATION



*** DALI Interface**

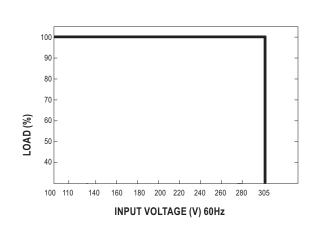
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

■ 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.

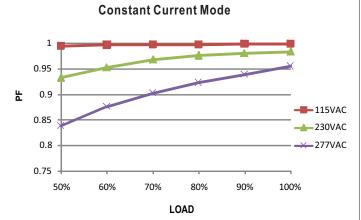
■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

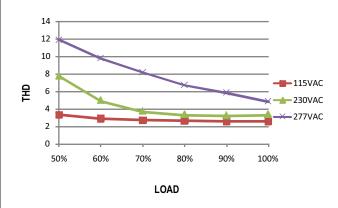
※ Tcase at 75°

C



■ TOTAL HARMONIC DISTORTION (THD)

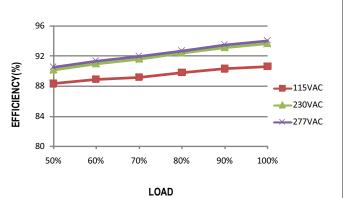
% XLG-150-L-DA2 Model, Tcase at 75 $^{\circ}$ C



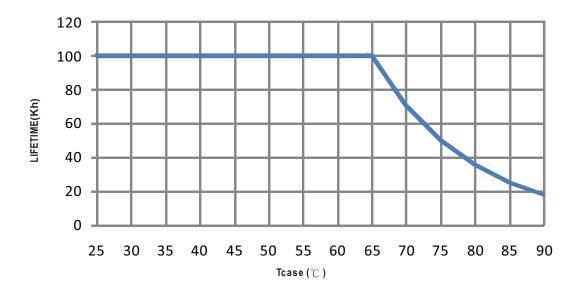
■ EFFICIENCY vs LOAD

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° C



■ LIFE TIME



XLG-150-DA2 series

