



Наличие и актуальные цены на

**XLG-150-H-DA2**

<https://www.mean-well.ru/store/XLG-150-H-DA2/>



DC Input: 176-280Vdc (Except for L type)



## 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

## 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℃~+90℃ 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

XLG - 150 I - L - DA2

{ DA2: DALI-2 dimming function

{ DA2-A: DALI-2 dimming function with 12V/250mA Auxiliary available(optional)

Rated output voltage(L/M/H types)

{ □: For standard version

{ I: For India version(by request with Input over voltage protection)

Rated wattage

Series name

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

## Applications

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

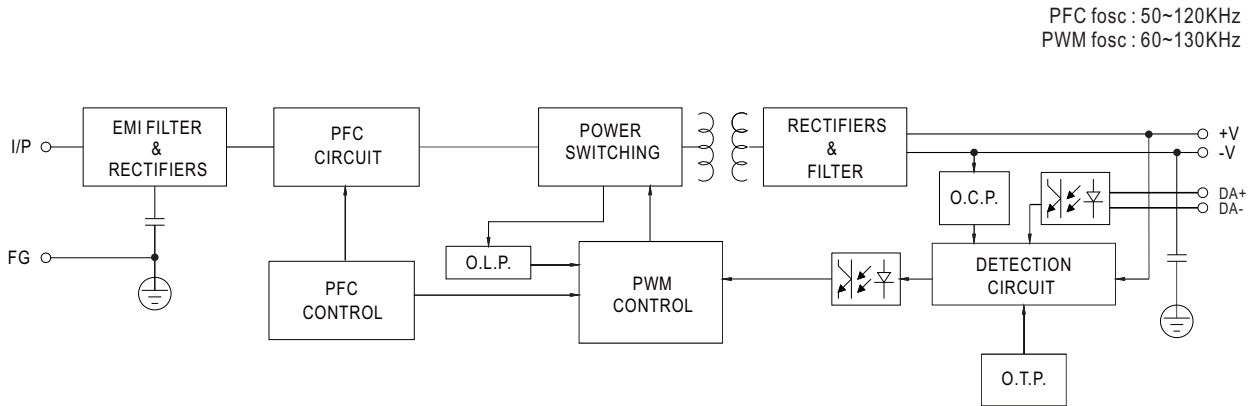
## GTIN CODE

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

**SPECIFICATION**

MODEL	XLG-150□-L-□		XLG-150□-M-□		XLG-150□-H-□	
OUTPUT	RATED CURRENT	700mA		1400mA		2800mA
	RATED POWER	150W		150W		150W
	CONSTANT CURRENT REGION Note.2	120 ~214V		60 ~ 107V		27 ~ 56V
	FULL POWER CURRENT RANGE	700~1050mA		1400~2100mA		2680~4170mA
	OPEN CIRCUIT VOLTAGE (max.)	240V		120V		65V
	CURRENT ADJ. RANGE	(Via the built-in potentiometer)				
		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	VOLTAGE RANGE Note.4	100 ~ 305VAC      142VDC ~ 431VDC (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 (Please refer to "Power Factor Characteristic" section)				
	TOTAL HARMONIC DISTORTION	THD< 10% (@ load≥50% at 115VAC/230VAC ,@load≥75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
	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% Ipeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	4 unit(circuit breaker of type B) / 6 units(circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dimming OFF, Only for standard version DA2-type)				
PROTECTION	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed				
	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage,recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours				
	OVER TEMPERATURE	Stage 1: Derating to 75% loading; stage 2: Derating to 50% loading. recovers automatically after fault condition is removed				
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90℃ (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90℃				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.06%/℃ (0 ~ 60℃)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	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 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				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH				
	EMC EMISSION	Parameter	Standard			Test Level/Note
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743			-----
		Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743			-----
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1			Class C @load≥50%
		Voltage Flicker	BS EN/EN61000-3-3			-----
	EMC IMMUNITY	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 2
EFT/Burst		BS EN/EN61000-4-4			Level 3	
Surge		BS EN/EN61000-4-5			4KV/Line-Line 6KV/Line-Earth	
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, >95% interruptions 250 periods	
OTHERS	MTBF	2316.2Khrs min.    Telcordia SR-332 (Bellcore) ;    213.3Khrs min.    MIL-HDBK-217F (25℃)				
	DIMENSION	180*63*35.5mm (L*W*H)				
	PACKING	0.8Kg; 16pcs/13.4Kg/0.67CUFT				

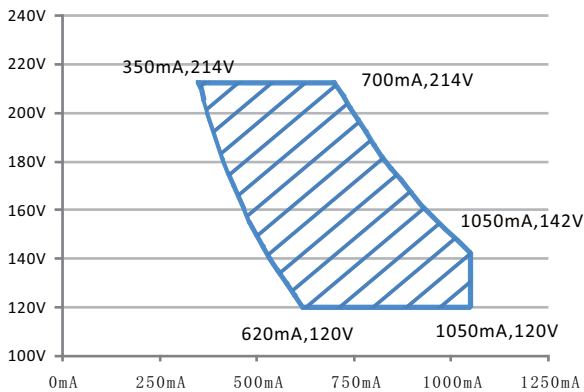
## BLOCK DIAGRAM



## DRIVING METHODS OF LED MODULE

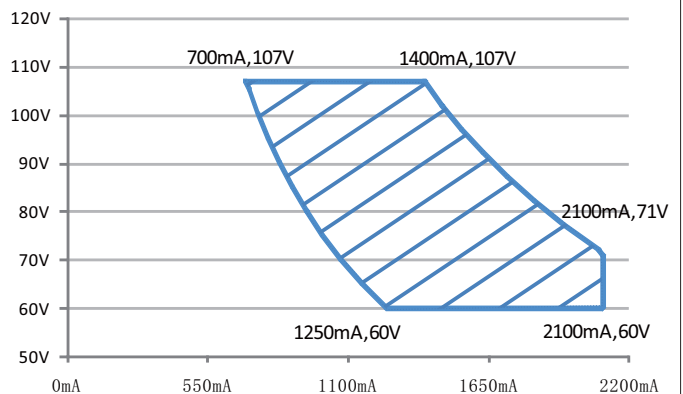
※ I-V Operating Area

◎ XLG-150-L-DA2



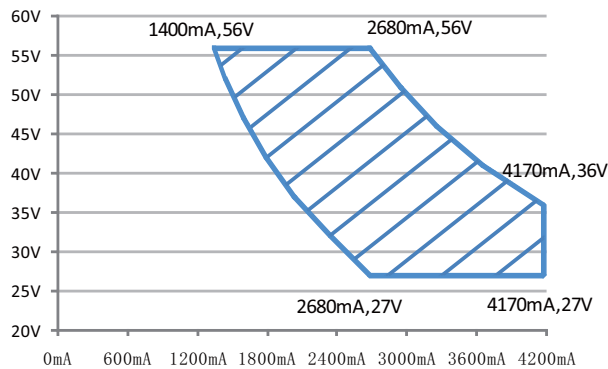
Recommend Performance Region

◎ XLG-150-M-DA2



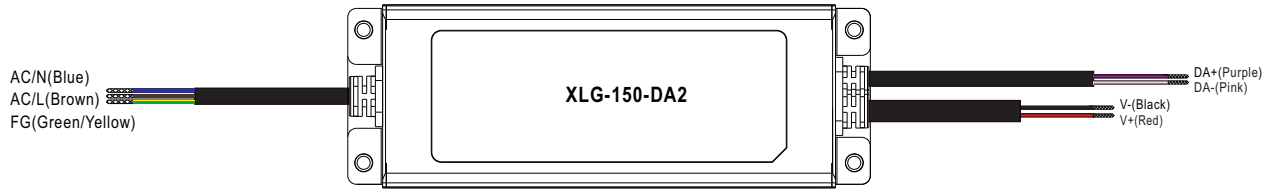
Recommend Performance Region

◎ XLG-150-H-DA2



Recommend Performance Region

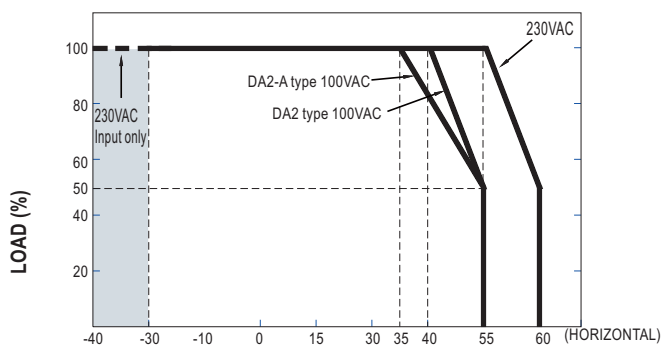
## DIMMING OPERATION



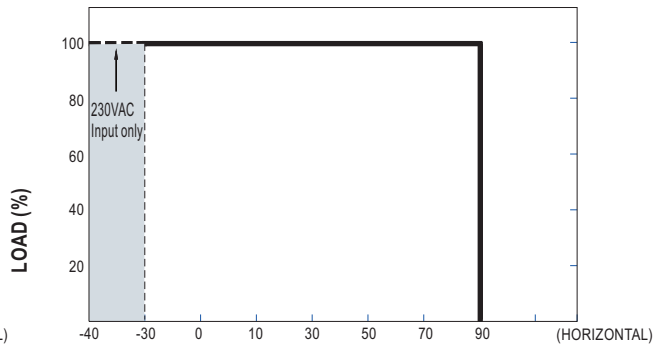
### ※ DALI Interface

- 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



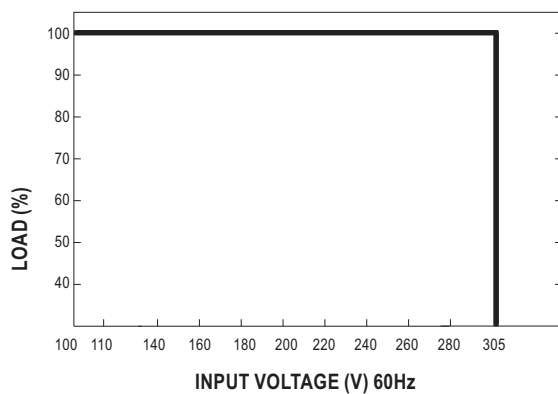
AMBIENT TEMPERATURE,  $T_a$  (°C)



$T_{case}$  (°C)

- 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.

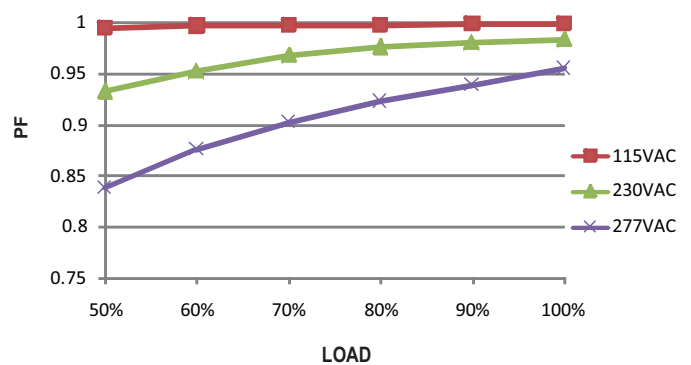
## STATIC CHARACTERISTIC



## POWER FACTOR (PF) CHARACTERISTIC

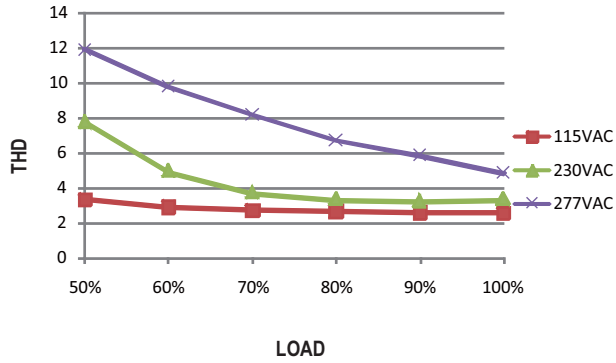
※  $T_{case}$  at 75°C

### Constant Current Mode



## TOTAL HARMONIC DISTORTION (THD)

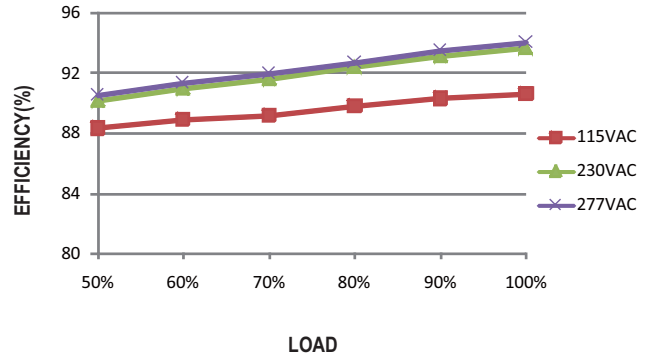
※ XLG-150-L-DA2 Model, Tcase at 75°C



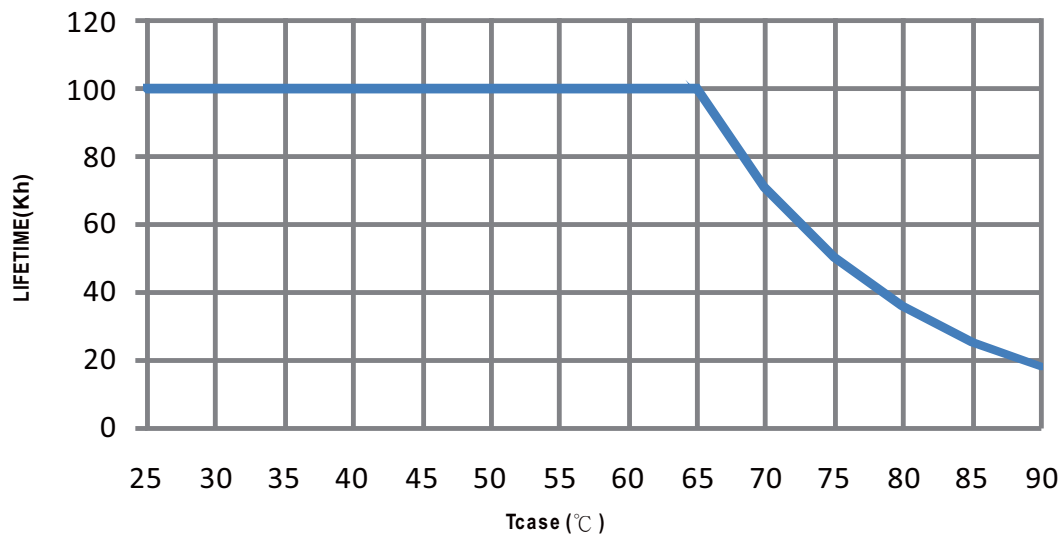
## EFFICIENCY vs LOAD

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



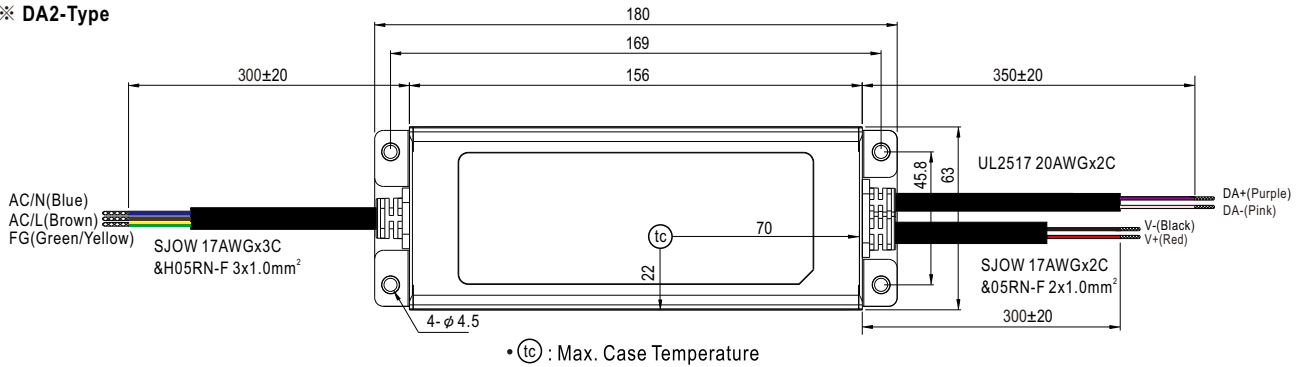
## MECHANICAL SPECIFICATION

Case No.: 243A

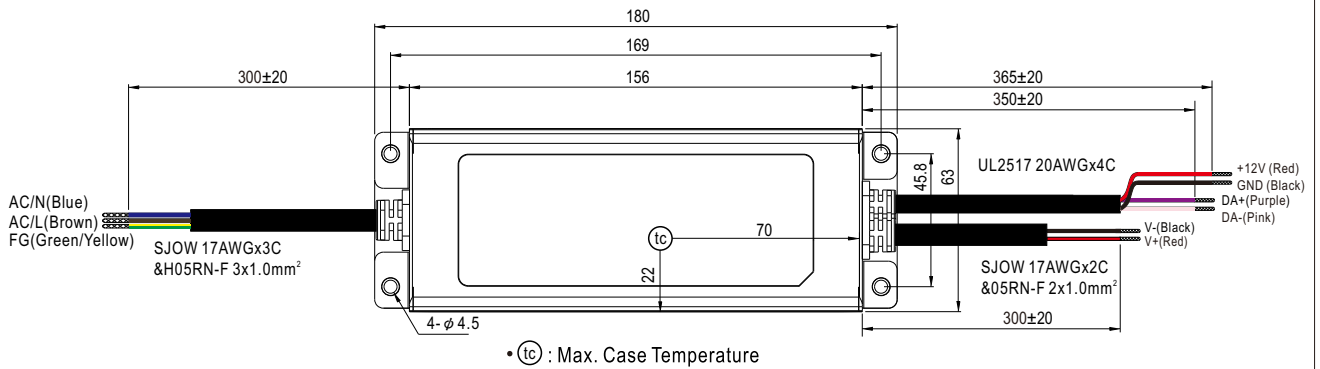
Unit:mm

Tolerance:±1

### ※ DA2-Type



### ※ DA2-A-Type

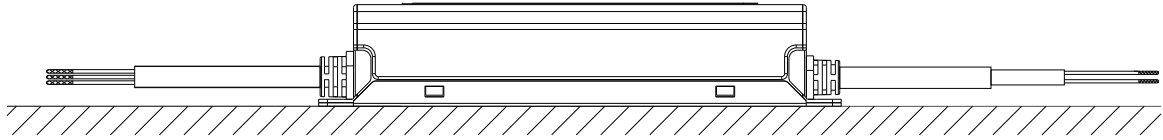




150W Constant Power Mode with DALI-2 LED Driver

## **XLG-150-DA2 series**

### ■ Recommend Mounting Direction



### ■ INSTALLATION MANUAL

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