



150W Constant Power Mode with DALI-2 LED Driver

XLG-150-DA2 series

User's Manual



IS 15885



(for XLG-150I-DA2 type only)



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°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-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

Applications

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

GTIN CODE

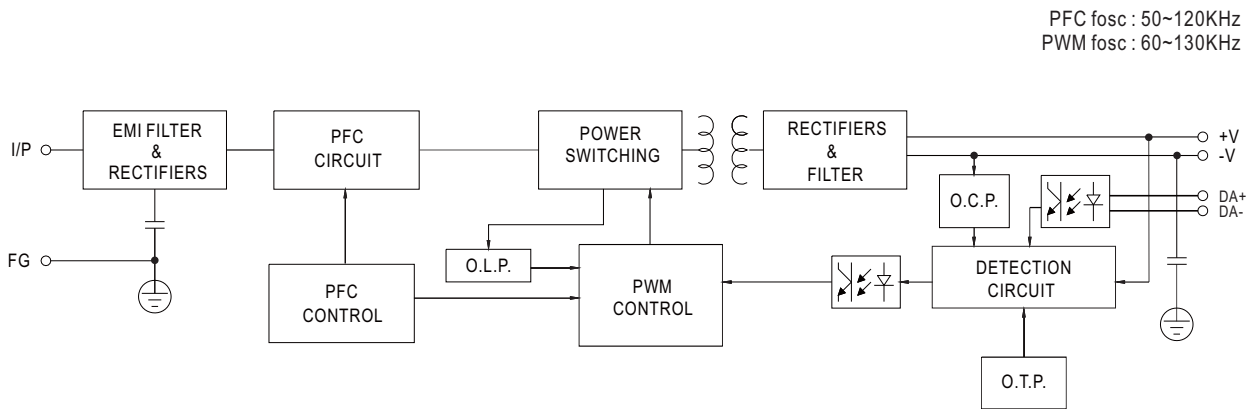
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

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

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 <small>Note.2</small>	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		

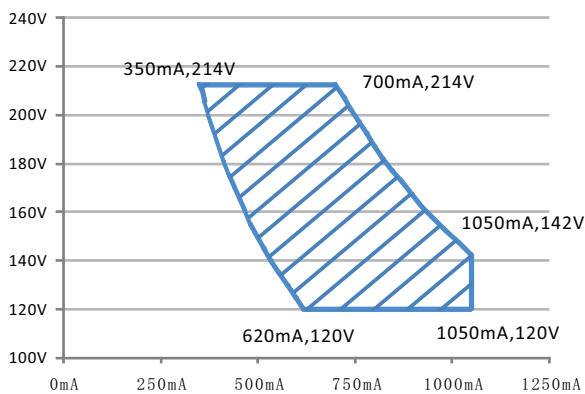
BLOCK DIAGRAM



DRIVING METHODS OF LED MODULE

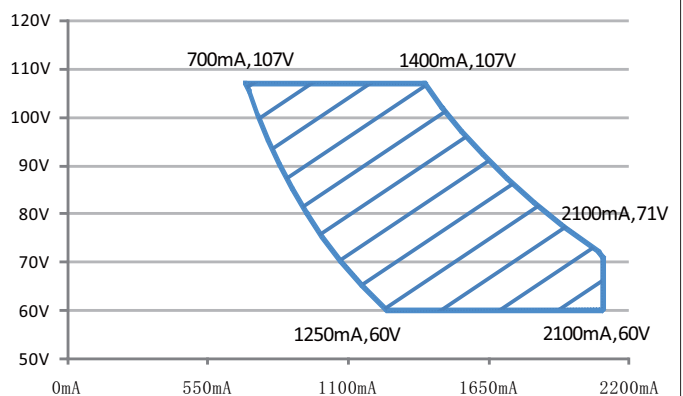
※ I-V Operating Area

◎ XLG-150-L-DA2



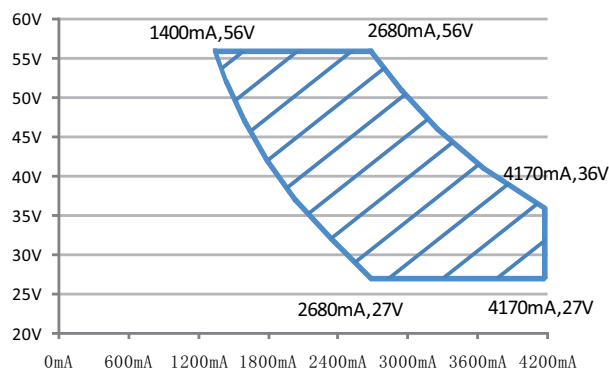
Recommend Performance Region

◎ XLG-150-M-DA2



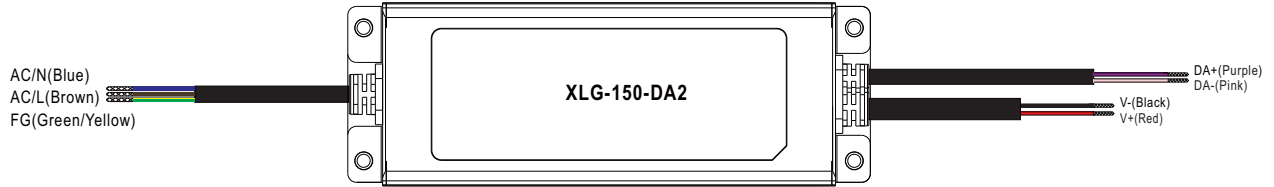
Recommend Performance Region

◎ XLG-150-H-DA2



Recommend Performance Region

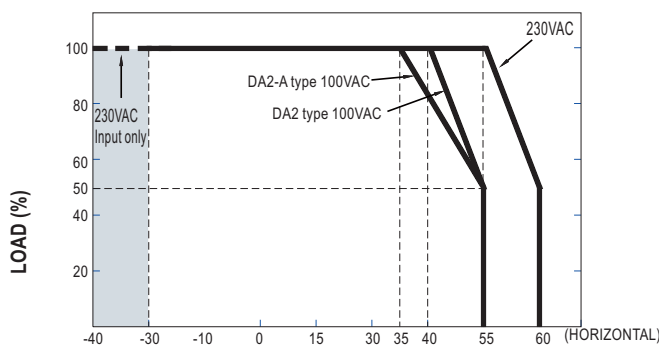
DIMMING OPERATION



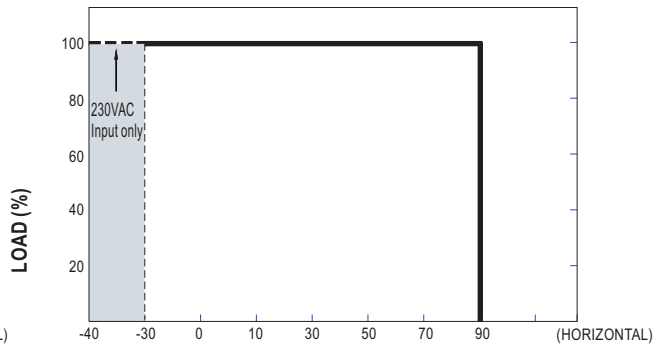
※ DALI Interface

- 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



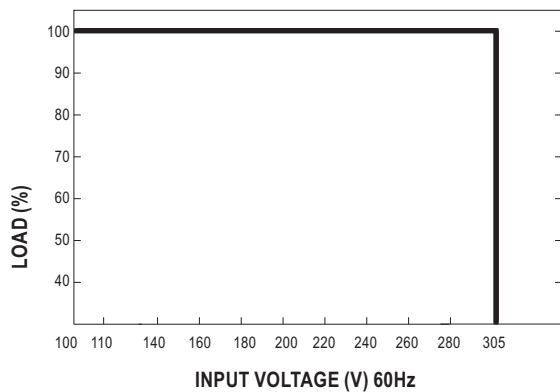
AMBIENT TEMPERATURE, T_a (°C)



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.

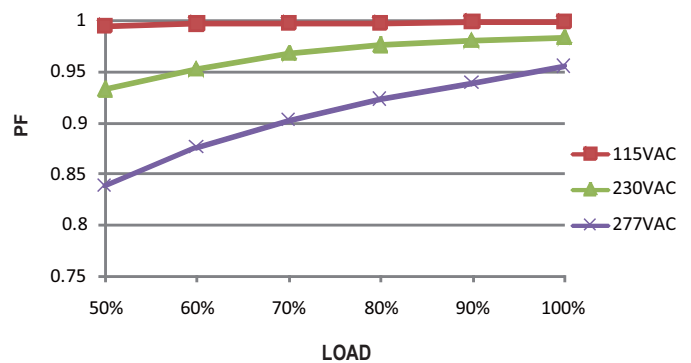
STATIC CHARACTERISTIC



POWER FACTOR (PF) CHARACTERISTIC

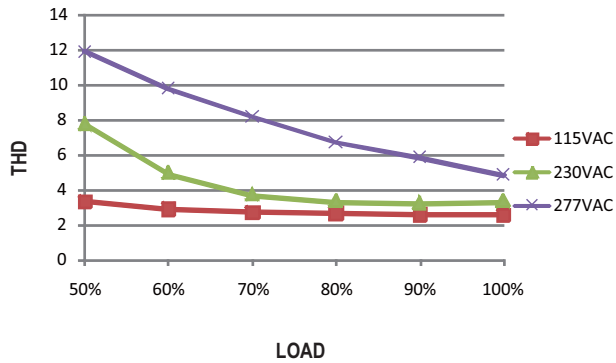
※ T_{case} at 75°C

Constant Current Mode



TOTAL HARMONIC DISTORTION (THD)

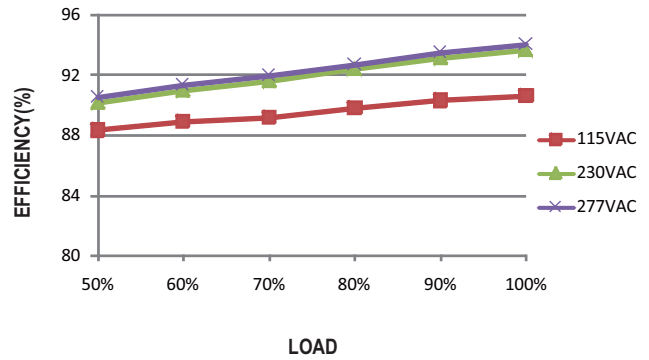
※ XLG-150-L-DA2 Model, Tcase at 75°C



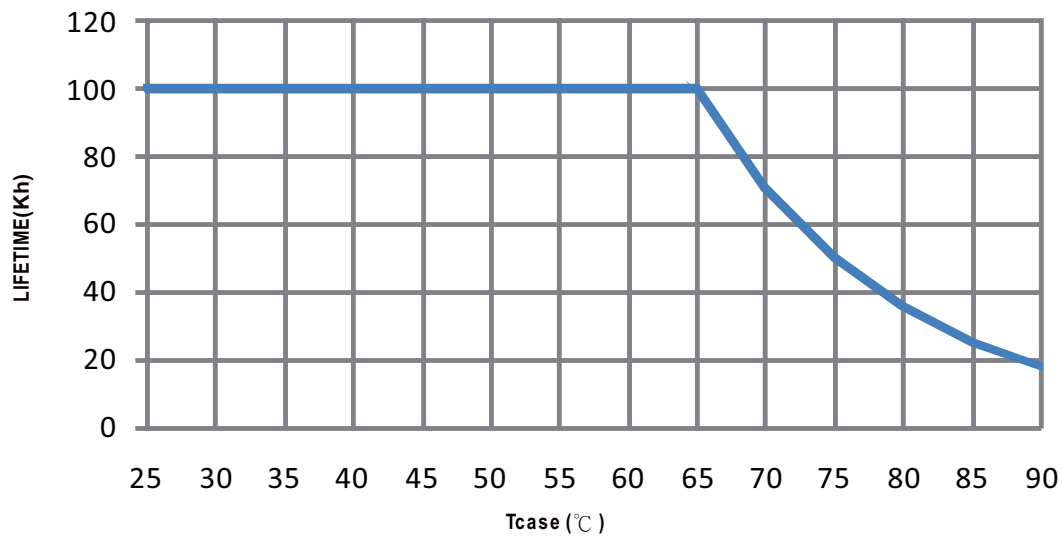
EFFICIENCY vs LOAD

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



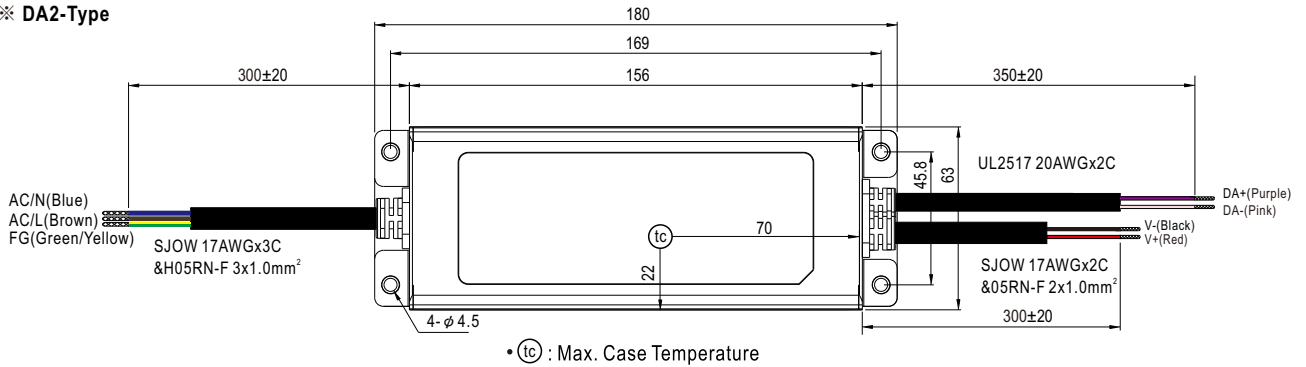
LIFE TIME



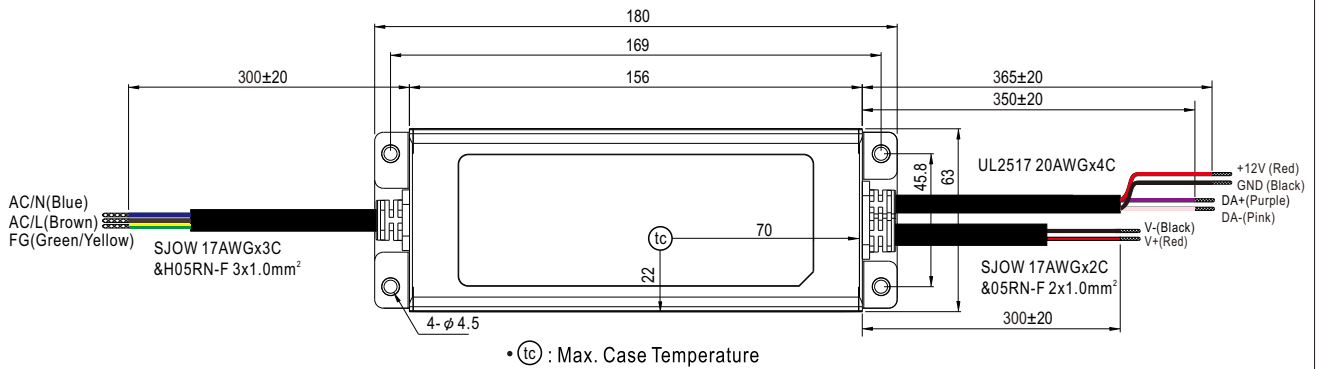
MECHANICAL SPECIFICATION

Case No.: 243A Unit:mm

※ DA2-Type



※ DA2-A-Type

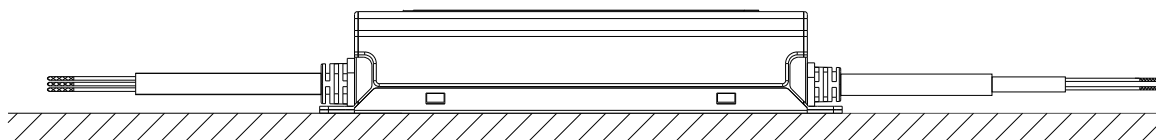




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■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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