





















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

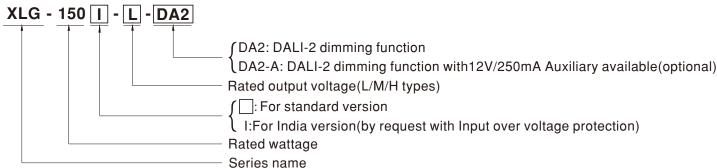
GTIN CODE

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

SPECIFICATION

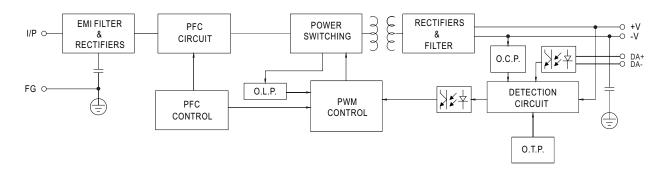
		XLG-150L	XLG-150 -M-	XLG-150 -H-		
	RATED CURRENT	700mA	1400mA	2800mA		
	RATED POWER	150W	150W	150W		
	CONSTANT CURRENT REGION Note.2	120 ~214V	60 ~ 107V	27 ~ 56V		
	FULL POWER CURRENT RANGE		1400~2100mA	2680~4170mA		
	OPEN CIRCUIT VOLTAGE (max.)		120V	65V		
ОИТРИТ	OF EN ORGOTT VOLIAGE (max.)	(Via the built-in potentiometer)	1200	00 0		
	CURRENT ADJ. RANGE	350~1050mA	700 2400	4400 4470		
	OURDENT RIPRI E		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				
	VOLTAGE BANGE Note 4	100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHODS OF LED MODULE"section)				
	VOLTAGE RANGE Note.4					
	FREQUENCY RANGE	47 ~ 63Hz				
		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)				
		THD<10% (@ load≥50% at 115VAC/230VAC,@load≥75% at 277VAC)				
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
	EFFICIENCY (Turn) Note 44	93% 92.5% 92%				
NPUT	EFFICIENCY (Typ.) Note.14					
	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) / 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)				
		Hissun made or Constant surrent limiting, recovers automatically after fault condition is removed.				
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				
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+90°C				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
NVIRONMENT	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 72min. each along X, Y, Z axes				
	SAFETY STANDARDS DALI 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 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°C / 70% RH				
	IOCEATION REGISTANCE			Test Level/Note		
SAFETY & EMC		Parameter	Standard DC EN/ENEE045/CC/CCPD45/CCP/T47742			
		Conducted	BS EN/EN55015(CISPR15) ,GB/T17743			
	FMO FMIONION	Radiated	BS EN/EN55015(CISPR15) ,GB/T17743			
	EMC EMISSION	Harmonic Current	BS EN/EN61000-3-2 ,GB/T17625.1	Class C @load≥50%		
		Voltage Flicker	BS EN/EN61000-3-3			
		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		
	EMC IMMUNITY	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,		
		voltage Dips and interruptions	DS EIN/EIN0 1000-4-11	>95% interruptions 250 periods		
	MTDE	2316.2Khrs min. Telcordia SR-332 (Bellcore); 213.3Khrs min. MIL-HDBK-217F (25°C)				
	MTBF					
THERS		180*63*35 5mm (I *\//*\)				
OTHERS	DIMENSION	180*63*35.5mm (L*W*H)				
OTHERS	DIMENSION PACKING	0.8Kg;16pcs/13.4Kg/0.67CUFT	, rated current and 25°C of ambient temperature.			

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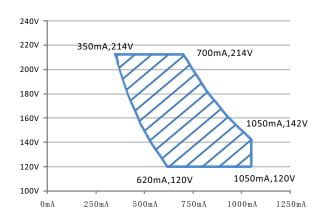
■ BLOCK DIAGRAM

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

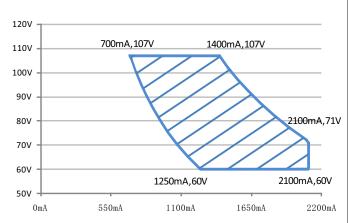


■ DRIVING METHODS OF LED MODULE

% I-V Operating Area

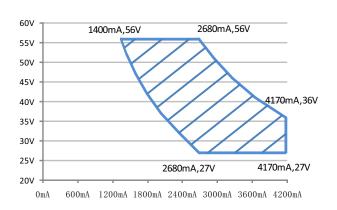


Recommend Performance Region



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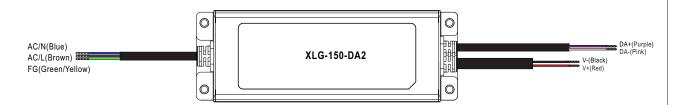
XLG-150-H-DA2



Recommend Performance Region



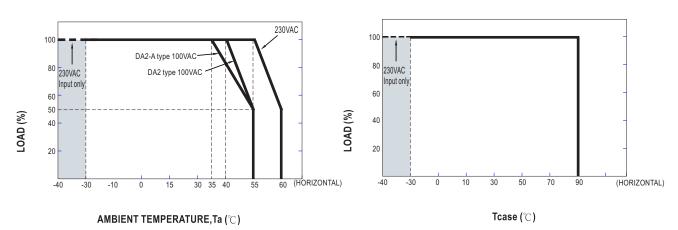
■ DIMMING OPERATION



*** DALI Interface**

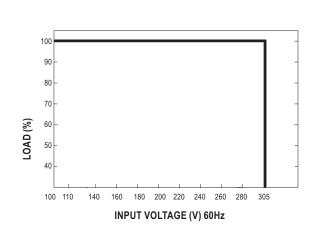
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

■ 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.

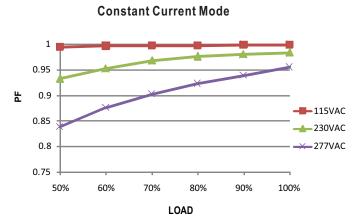
■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

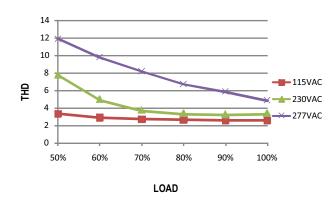
C





■ TOTAL HARMONIC DISTORTION (THD)

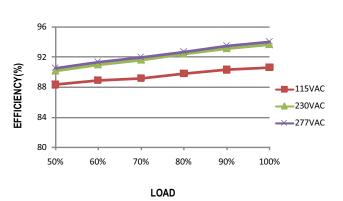
% XLG-150-L-DA2 Model, Tcase at 75 $^{\circ}$ C



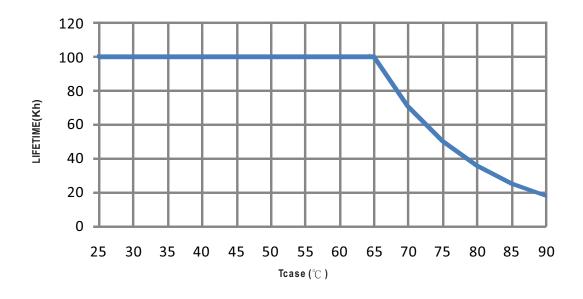
■ EFFICIENCY vs LOAD

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

