







■ 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
- Class 2 power unit(except for L type)
- Surge protection with 6KV/4KV
- DALI-2 Dimming with minimum level 8%
- 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

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

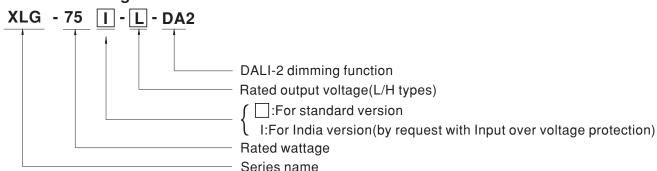
■ GTIN CODE

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

Description

XLG-75-DA2 series is a 75W LED AC/DC driver featuring the constant power mode with DALI-2 dimming function. XLG-75-DA2 operates from $100\sim305$ VAC and offers models with different rated current ranging between 700mA and 2100mA. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -40° C $\sim+90^{\circ}$ 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-75-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



75W Constant Power Mode with DALI-2 LED Driver **XLG-75-DA2** series

SPECIFICATION

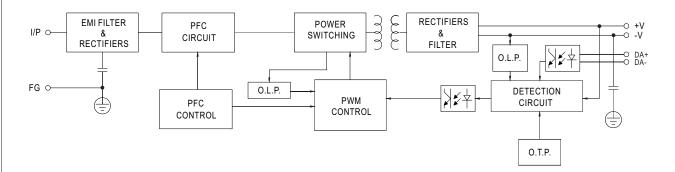
MODEL		XLG-75 L-DA2	XLG-75	-H-DA2		
	RATED CURRENT(Default)	700mA	1400mA			
	RATED POWER	74.9W	75.6W			
	CONSTANT CURRENT REGION	53 ~ 107V	27 ~ 56V			
	FULL POWER CURRENT RANGE	700~1050mA	1300~2100m	A		
DUTPUT	OPEN CIRCUIT VOLTAGE (max.)	115V	60V			
	CURRENT ADJ. RANGE	(Via the built-in potentiometer)				
	OURILLITY ADDITION OF	350~1050mA 700~2100mA				
	CURRENT RIPPLE	5.0%(@ full load)				
	CURRENT TOLERANCE	±5%				
	SET UP TIME	500ms/230VAC, 1200ms/115VAC				
	VOLTAGE RANGE Note.4	100 ~ 305VAC 142VDC ~ 431VDC				
		(Please refer to "STATIC CHARACTERISTIC" and "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				
INDUT	EFFICIENCY (Turn)		, ,			
INPUT	EFFICIENCY (Typ.)	90% 1A / 115VAC 0.45A / 230VAC 0.	90%			
	AC CURRENT (Typ.) INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured a	.38A / 277VAC	10		
		COLD START SUA(twidth=Suops measured a	at 30 /6 lipeak) at 230 VAC, Fel NEIVIA 4	10		
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units(c	circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	-0.75-n N 1077N N O				
		<0.75mA/277VAC				
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dimming off)(For standard version	ion)		
		Library and the Company of the State of the		a distance to many over d		
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)				
	OVED TEMPEDATURE	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				
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03%°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.1, GB19510.14; EAC TPTC 004; IP67 approved				
	DALLOTANDA DDO					
	DALI STANDARDS	Comply with IEC62386-101, 102, 207, 251, Device type 6(DT6)				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50				
		Parameter	Standard BS EN/EN55015(CISPR15),GB	Test Level/Note		
	EMC EMISSION	Conducted	BS EN/EN55015(CISPR15), GB			
		Radiated				
		Harmonic Current	BS EN/EN61000-3-2 ,GB/T1762			
		Voltage Flicker	BS EN/EN61000-3-3			
		BS EN/EN61547				
		Parameter	Standard	Test Level/Note		
		ESD Padiated	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
	EMC IMMUNITY	Radiated	BS EN/EN61000-4-3	Level 3		
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-4	Level 3		
		Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth		
		Conducted Magnetic Field	BS EN/EN61000-4-6	Level 3		
		Magnetic Field	BS EN/EN61000-4-8	Level 4		
			BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
		Voltage Dips and Interruptions	BO ENVENTOTOCO T TT			
	MTDE			· · ·		
OTHERS	MTBF	2489.3Khrs min. Telcordia SR-332 (Bel		HDBK-217F (25°C)		
OTHERS	DIMENSION	2489.3Khrs min. Telcordia SR-332 (Bel 140*63*32mm (L*W*H)		· ·		
OTHERS	DIMENSION PACKING	2489.3Khrs min. Telcordia SR-332 (Bel 140*63*32mm (L*W*H) 0.58Kg;24pcs/15Kg/0.85CUFT	llcore); 245.7Khrs min. MIL-	HDBK-217F (25°C)		
	DIMENSION PACKING 1. All parameters NOT specially r	2489.3Khrs min. Telcordia SR-332 (Bel 140*63*32mm (L*W*H) 0.58Kg;24pcs/15Kg/0.85CUFT mentioned are measured at 230VAC input, rate	llcore); 245.7Khrs min. MIL-	HDBK-217F (25°C)		
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75W Constant Power Mode with DALI-2 LED Driver **XLG-75-DA2** series

■ BLOCK DIAGRAM

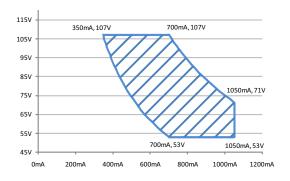
PFC fosc: 50~120KHz PWM fosc: 65KHz



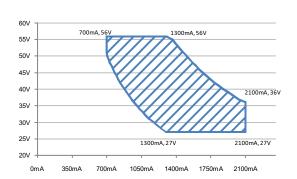
■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

O XLG-75-L-DA2

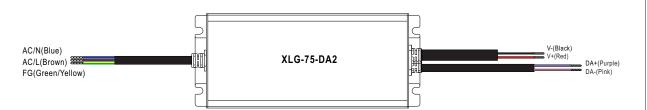


Recommend Performance Region



Recommend Performance Region

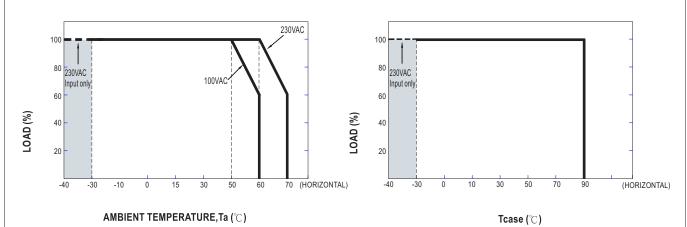
■ DIMMING OPERATION



※ DALI Interface

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

■ OUTPUT LOAD vs TEMPERATURE

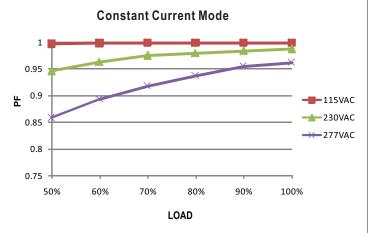


Note: 1.If XLG-75-DA2 operates in Constant Current mode with the rated current the maximum workable Ta is 60°C (Typ. 230VAC) or 50°C (Typ.100VAC) 2. Below 120VAC@ -30°C may has restart situation within 5s after power-on

■ STATIC CHARACTERISTIC

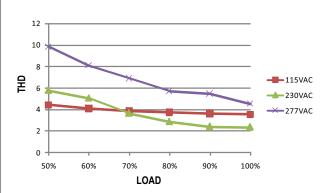
100 90 80 70 60 40 100 110 140 160 180 200 220 240 260 280 305 INPUT VOLTAGE (V) 60Hz

■ POWER FACTOR (PF) CHARACTERISTIC



■ TOTAL HARMONIC DISTORTION (THD)

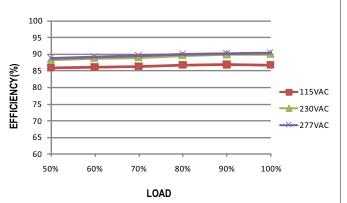
※ XLG-75-L-DA2 Model, Tcase at 75 °C



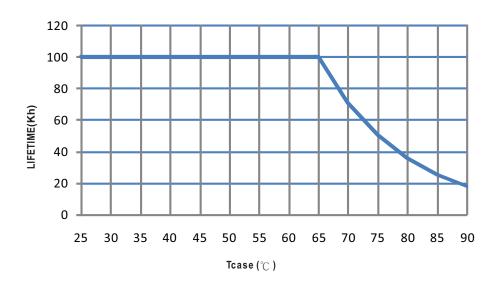
■ EFFICIENCY vs LOAD

XLG-75-DA2 series possess superior working efficiency that up to 90% can be reached in field applications.

※ XLG-75-L-DA2 Model, Tcase at 75°C



■ LIFE TIME





75W Constant Power Mode with DALI-2 LED Driver **XLG-75-DA2** series

