



75W Constant Power Mode with DALI-2 LED Driver X L G - 75 - D A 2 series

























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

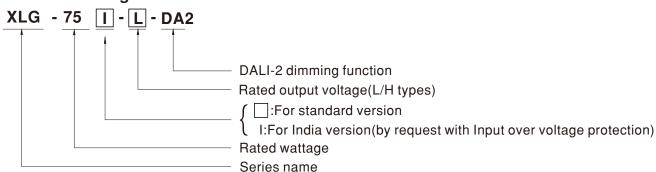
■ GTIN CODE

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 100~305VAC 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 -+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-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



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SPECIFICATION

MODEL		XLG-75 -L-DA2	XLC	6-75 -H-DA2		
	RATED CURRENT(Default)	700mA	1400)mA		
ОИТРИТ	RATED POWER	74.9W	75.6			
	CONSTANT CURRENT REGION	53 ~ 107V	27 ~	56V		
	FULL POWER CURRENT RANGE	700~1050mA	130)~2100mA		
	OPEN CIRCUIT VOLTAGE (max.)	115V 60V				
	OUDDENT AD L DANIOE	(Via the built-in potentiometer)				
	CURRENT ADJ. RANGE	350~1050mA 700~2100mA				
	CURRENT RIPPLE	5.0%(@ full load) ±5%				
	CURRENT TOLERANCE					
	SET UP TIME	500ms/230VAC, 1200ms/115VAC				
	VOLTAGE RANGE Note.4	100 ~ 305VAC 142VDC ~ 431VDC				
	VOLTAGE RANGE Note.4	(Please refer to "STATIC CHARACTERISTIC" and "DRIVING METHODS OF LED MODULE"section)				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	$PF \ge 0.97 / 115VAC$, $PF \ge 0.95 / 230VAC$, $PF \ge 0.92 / 277VAC$ at full load				
	FOWER PACTOR (Typ.)	(Please refer to "Power Factor Characteristic" section) THD< 10% (@ load≥50% at 115VAC/230VAC ,@load≥75% at 277VAC) Please refer to "TOTAL HARMONIC DISTORTION (THD)" section				
	TOTAL HARMONIC DISTORTION					
	TOTAL HARMONIC DISTORTION					
	EFFICIENCY (Typ.)	90%				
	AC CURRENT (Typ.)	1A / 115VAC 0.45A / 230VAC 0.38A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=360µs measured at 50% lpeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A	8 unit(circuit breaker of type B) / 14 units(circuit breaker of type C) at 230VAC				
	CIRCUIT BREAKER					
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY	Standby newer concumption <0.5W (Dimming off)(For standard varsion)				
	POWER CONSUMPTION	Standby power consumption <0.5W (Dimming off)(For standard version)				
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed				
DOTECTION	vers automatically after fault condition is removers					
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				
	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	±0.03%/°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 (EL) appendix J suitable for emergency installations(DC Input: 176-280Vdc) independent, BS EN/EN62384; IS 15885(Part2/Sec13)(for XLG-75I-DA2 only); GB19510.1, GB19510.14; EAC TP TC 004; IP67 approved				
	DALI STANDARDS	Comply with IEC62386-101, 102, 207, 251, Device type 6(DT6)				
AFFTVO	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
SAFETY & SMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 5	500VDC / 25°C / 70% RH			
INIC		Parameter	Standard		Test Level/Note	
	EMC EMISSION EMC IMMUNITY	Conducted	BS EN/EN55015(CISPF	15) ,GB/T 17743		
		Radiated	BS EN/EN55015(CISPR	15) ,GB/T 17743		
		Harmonic Current	BS EN/EN61000-3-2,G	B17625.1	Class C @load≥50%	
		Voltage Flicker	BS EN/EN61000-3-3			
		BS EN/EN61547			ı	
		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 3	
		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 3	
		Magnetic Field	BS EN/EN61000-4-8		Level 4	
					>95% dip 0.5 periods, 30% dip 25 periods	
		Voltage Dips and Interruptions	BS EN/EN61000-4-11		>95% interruptions 250 periods	
	MTBF	2489.3Khrs min. Telcordia SR-332 (Be	ellcore); 245.7Khrs min	. MIL-HDBK-21	17F (25℃)	
OTHERS	DIMENSION	140*63*32mm (L*W*H)	210.71411011111	. IMIL HIDDIK Z	(20 0)	
	PACKING	0.58Kg;24pcs/15Kg/0.85CUFT				
ЮТЕ	Please refer to "DRIVING ME Tolerance: includes set up tol De-rating may be needed und Length of set up time is meas Based on IEC 62386-101/102 DALI power on function,othen Input over voltage only for XLI The driver is considered as a complete installation, the final (as available on https://www.m The ambient temperature dera In Please refer to the warranty This series meets the typical	mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.				

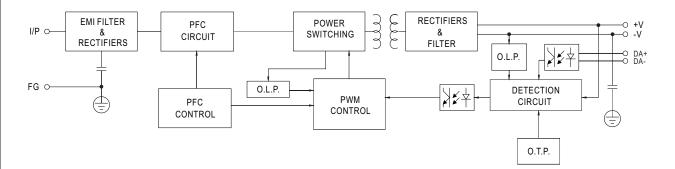
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 For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf
 RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations;
 To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.
 Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



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

■ BLOCK DIAGRAM

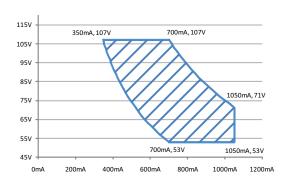
PFC fosc: 50~120KHz PWM fosc: 65KHz



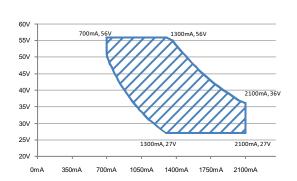
■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

O XLG-75-L-DA2



Recommend Performance Region



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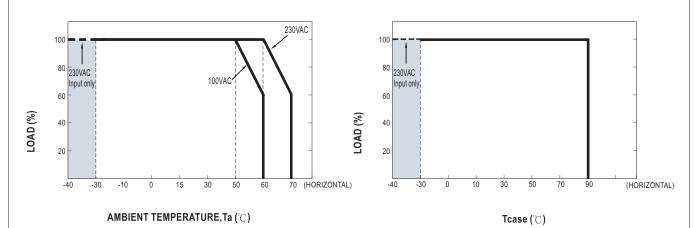
■ DIMMING OPERATION



※ 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

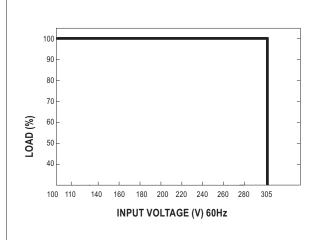
■ OUTPUT LOAD vs TEMPERATURE



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)

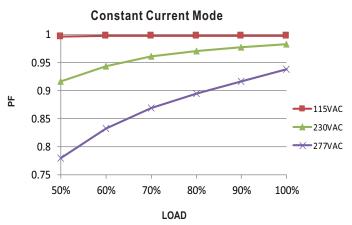
2. Below 120VAC@ -30°C may has restart situation within 5s after power-on

■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

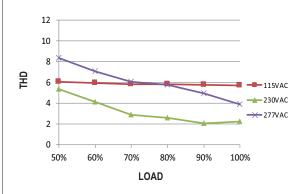
★ Tcase at 75°C



■ TOTAL HARMONIC DISTORTION (THD)

※ XLG-75-L-DA2 Model, Tcase at 75

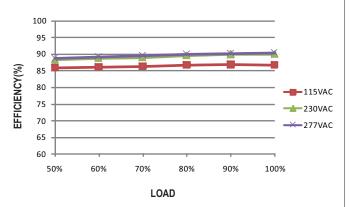
°C



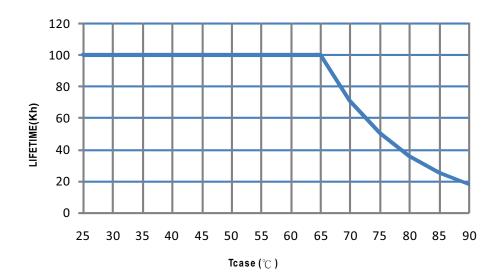
■ EFFICIENCY vs LOAD

 $\rm XLG\text{-}75\text{-}DA2$ 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





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