

240W Constant Power Mode with DALI-2 LED Driver

XLG-240-DA2





















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

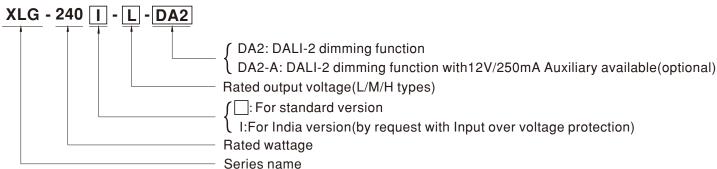
GTIN CODE

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

Description

XLG-240-DA2 series is a 240W LED AC/DC driver featuring the constant power mode with DALI-2 dimming function. XLG-240-DA2 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 6660mA. Thanks to the high efficiency up to 94%, 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-240-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



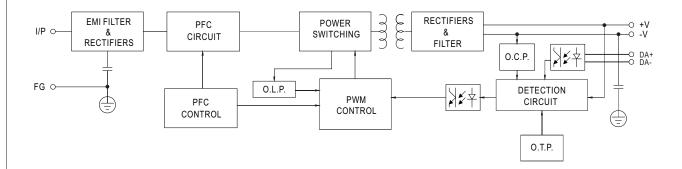
SPECIFICATION

MODEL			T			
		XLG-240L	XLG-240M	XLG-240 -H-		
	RATED CURRENT(Default)	700mA	1400mA	4900mA		
ОИТРИТ	RATED POWER	239.4W	239.4W	239.6W		
	CONSTANT CURRENT REGION Note.2		90 ~ 171V	27 ~ 56V		
	FULL POWER CURRENT RANGE		1400~2100mA	4280~6660mA		
	OPEN CIRCUIT VOLTAGE (max.)		197V	65V		
	CURRENT ADJ. RANGE	(Via the built-in potentiometer)				
	CONTRACT / NOC. TO THE	350~1050mA	700~2100mA	2400~6660mA		
	CURRENT RIPPLE	5%(@ 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				
		100 ~ 305VAC 142VDC ~ 431VDC				
	VOLTAGE RANGE Note.4	(Please refer to "STATIC CHARACTERISTIC" ang "DRIVING METHODS OF LED MODULE"section)				
	EDECUENCY DANCE					
	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/23	,			
		Please refer to "TOTAL HARMONIC DIS"				
	EFFICIENCY (Typ.) Note.14		93.5%	93%		
INPUT	AC CURRENT (Typ.)	2.7A / 115VAC 1.3A / 230VAC 1.1A / 277VAC				
	INRUSH CURRENT(Typ.)	COLD START 85A(twidth=500µs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. NO. of PSUs on 16A					
	CIRCUIT BREAKER	2 unit(circuit breaker of type B) / 4 units(cir	cuit breaker of type C) at 230VAC			
		.0.754.1077/40				
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER	Standby power consumption <0.5W (Dimn	ning OFF, Only for standard version DA2-type)			
	CONSUMPTION					
	SHORT CIRCUIT		recovers automatically after fault condition is rem			
PROTECTION	INPUT OVER VOLTAGE Note.7	320 ~ 390VAC (Shut down output voltage who	en the input voltage exceeds protection voltage,reco	overs automatically after fault condition is removed)		
FROIECTION	INFOTOVER VOLTAGE NOTE.	Can survive input voltage stress of 440Vac	for 48 hours			
	OVER TEMPERATURE	Stage 1: Derating to 75% loading; stage 2:	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 "OUTP	UT 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	±0.06%/℃ (0~60℃)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for	72min. each along X, Y, Z axes			
	CAFETY CTANDARDO	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		
	SAFETY STANDARDS	installations(DC Input: 176-280Vdc) independent ,GB19510.1 ,GB19510.14; EAC TPTC 004; IS 15885(Part2/Sec13)(for XLG-240I-DA2 only); IP67 approved				
	DALI STANDARDS	Comply with IEC62386-101,102,207,251	.Device type 6(DT6)			
	WITHSTAND VOLTAGE	1/P-0/P:3.75KVAC 1/P-FG:2KVAC 0/P-FG:1.8KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 50		T		
		Danamatan	Standard	Test Level/Note		
		Parameter				
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743			
			BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN55015(CISPR15) ,GB/T 17743			
	EMC EMISSION	Conducted Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743			
	EMC EMISSION	Conducted Radiated Harmonic Current	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1	 Class C @load≥50%		
SAFETY &	EMC EMISSION	Conducted Radiated Harmonic Current Voltage Flicker	BS EN/EN55015(CISPR15) ,GB/T 17743			
SAFETY & EMC	EMC EMISSION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3	 Class C @load≥50%		
	EMC EMISSION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard	Class C @load≥50% Test Level/Note		
-	EMC EMISSION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
	EMC EMISSION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard	Class C @load≥50% Test Level/Note		
		Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
	EMC EMISSION	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2		
		Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3		
		Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2,GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth Level 2		
		Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2,GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth Level 2 Level 4		
		Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2,GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth Level 2		
	EMC IMMUNITY	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2,GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	EMC IMMUNITY	Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions 1988.7K hrs min. Telcordia SR-332 (Bell	BS EN/EN55015(CISPR15),GB/T 17743 BS EN/EN61000-3-2,GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3 4KV/Line-Line 6KV/Line-Earth Level 2 Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
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■ BLOCK DIAGRAM

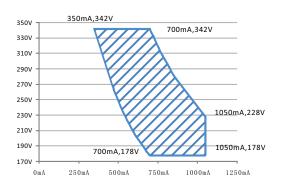
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



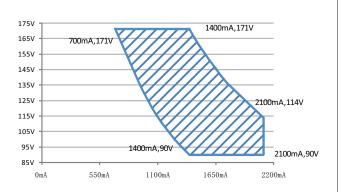
■ DRIVING METHODS OF LED MODULE

% I-V Operating Area

XLG-240-L-DA2

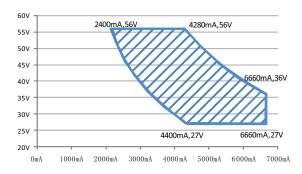


XLG-240-M-DA2



Recommend Performance Region

⊚ XLG-240-H-DA2



Recommend Performance Region

Recommend Performance Region



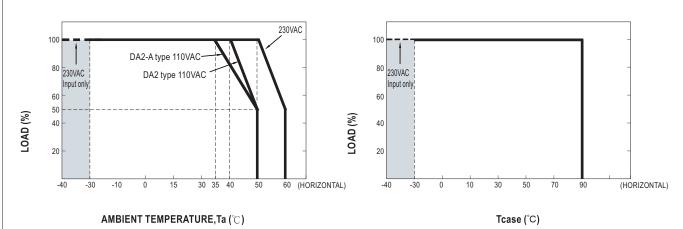
■ DIMMING OPERATION



*** DALI Interface**

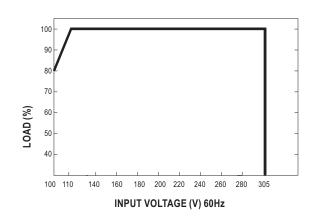
- Apply DALI signal between DA+ and DA-.
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 8% of output.

■ OUTPUT LOAD vs TEMPERATURE



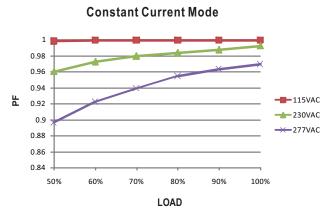
Note:1.The output current must be derated at ultra-high ambient temperature. 2.Below 120VAC@-30°C may has restart situation within 5s after power-on.

■ STATIC CHARACTERISTIC



■ POWER FACTOR (PF) CHARACTERISTIC

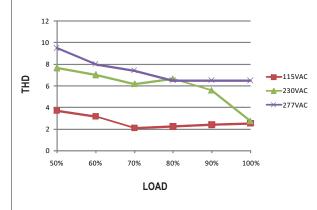
 $\slash\hspace{-0.4em}$ Tcase at 75 $^\circ\hspace{-0.4em}\mathbb{C}$





■ TOTAL HARMONIC DISTORTION (THD)

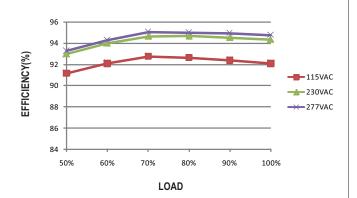
% XLG-240-L-DA2 Model, Tcase at 75 $^{\circ}$ C



■ EFFICIENCY vs LOAD

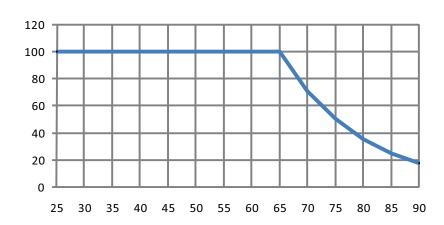
XLG-240-DA2 series possess superior working efficiency that up to 93% can be reached in field applications.

XLG-240-L-DA2 Model, Tcase at $75^{\circ}\!\!\!\subset$

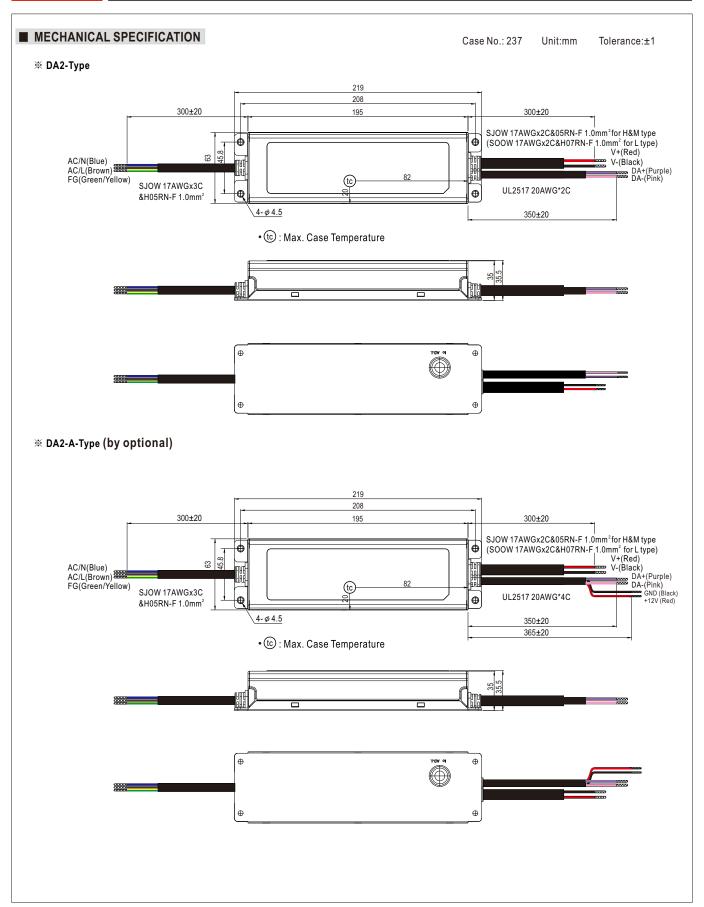


■ LIFE TIME

LIFETIME(Kh)



Tcase ($^{\circ}\!\mathbb{C}$)



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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