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XLG-100-DA2 series 100W Constant Power Mode with DALI-2 LED Driver





IS 15885 8 (for XLG-100I-DA2 type only) SELV IP67 R CCC CB III CCCK C Μ DALD EL

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%
- 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

GTIN CODE

Type HL for use in class I, Division 2

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

Description

XLG-100-DA2 series is a 100W LED AC/DC driver featuring the constant power mode with DALI-2 dimming function. XLG-100-DA2 operates from 100~305VAC and offers models with different rated current ranging between 700mA and 2780mA. Thanks to the high efficiency up to 92.5%, with the fanless design, the entire series is able to operate for $-40^{\circ}C \sim +90^{\circ}C$ 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-100-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

$\frac{\mathbf{XLG}}{1} \cdot \frac{100}{1} \cdot \frac{1}{1} \cdot \frac{\mathbf{DA2}}{1}$	
	— DA2: DALI-2 dimming function
	 Rated output voltage(L/H types)
	For standard version I:For India version(by request with Input over voltage protection)
	- Rated wattage
	— Series name

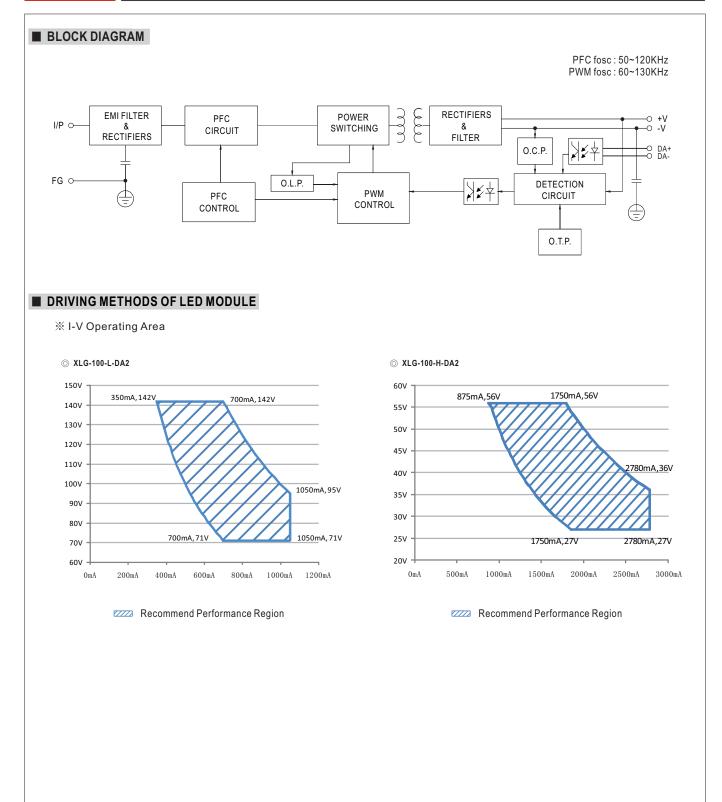
Туре	Function	Note
DA2	DALI-2 control technology with lo adjustable via built-in potentiometer	In Stock



SPECIFICATION

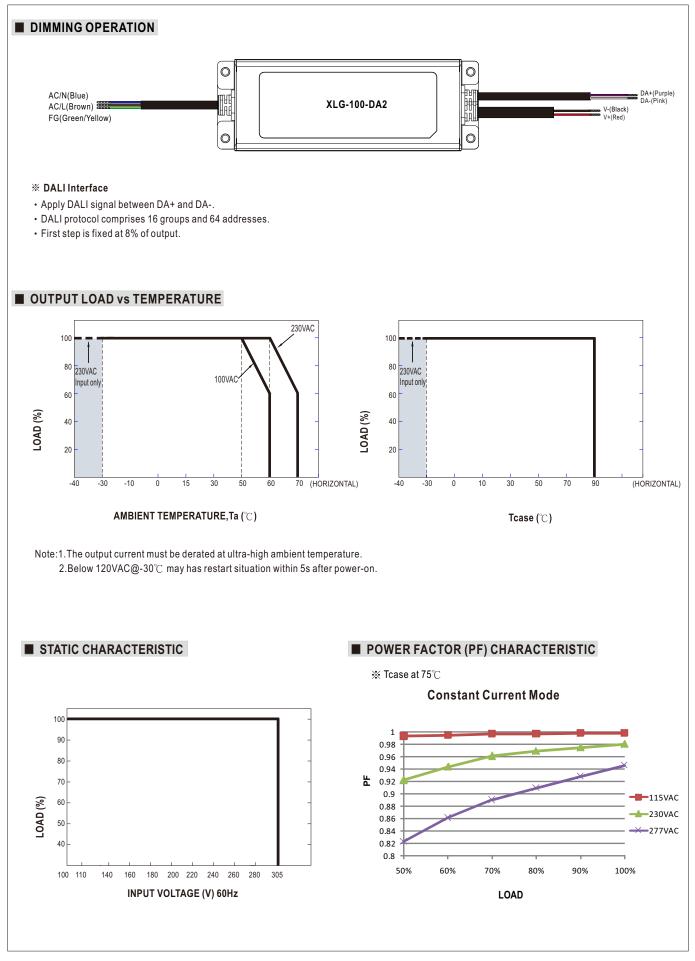
		XLG-100 -L-DA2		XLG-100 H-DA	.2	
	RATED CURRENT	700mA		2100mA		
	RATED POWER	100W		100W		
	CONSTANT CURRENT REGION Note.2	71~142V		27 ~ 56V		
	FULL POWER CURRENT RANGE	700~1050mA		1750~2780mA		
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)	158V		60V		
UUIPUI		(Via the built-in potentiometer)				
	CURRENT ADJ. RANGE	350~1050mA		875~2780mA		
	CURRENT RIPPLE	4.0%(@ full load)				
	CURRENT TOLERANCE	±5%				
	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)				
	FREQUENCY RANGE	47 ~ 63Hz				
		PF≧0.97 / 115VAC, PF≧0.95 / 230VAC,	$PF \ge 0.92 / 277 VAC$ at full loa	ıd		
	POWER FACTOR (Typ.)	(Please refer to "Power Factor Characteri	stic" section)			
		THD< 10% (@ load≧50% at 115VAC/2	30VAC,@load≧75% at 2	77VAC)		
	TOTAL HARMONIC DISTORTION	Please refer to "TOTAL HARMONIC DI		,		
	EFFICIENCY (Typ.)	92.5%		91%		
INPUT	AC CURRENT (Typ.)	1.1A/115VAC 0.5A/230VAC 0.42	A/277VAC			
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=330µs measure	d at 50% Ineak) at 230VAC: P	er NEMA 410		
	MAX. NO. of PSUs on 16A	× 1				
	CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units	(circuit breaker of type C) at 2	230VAC		
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dim	nming OFF) (For standard ver	sion)		
		Hispup mode or Constant and the till		foult condition !	avad	
	SHORT CIRCUIT	Hiccup mode or Constant current limiting				
ROTECTION	INPUT OVER VOLTAGE Note.7			protection voltage, reco	overs automatically after fault condition is remo-	
		Can survive input voltage stress of 440Va				
	OVER TEMPERATURE	Stage 1: Derating to 75% loading; stage		-	after fault condition is removed	
	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUT	PUT LOAD vs TEMPERATU	RE" section)		
	MAX. CASE TEMP.	Tcase=+90℃				
NVIRONMENT	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	r 72min. each along X, Y, Z a	xes		
	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-100I-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)				
	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 /				
		Parameter	Standard		Test Level/Note	
		Conducted	BS EN/EN55015(CISP	R15) GB/T 17743		
		Radiated	BS EN/EN55015(CISP			
	EMC EMISSION	Harmonic Current	BS EN/EN61000-3-2 ,0		Class C @load≥50%	
		Voltage Flicker	BS EN/EN61000-3-3	3017023.1		
SAFETY &		BS EN/EN61547	D3 EN/EN01000-3-3			
EMC		Parameter	Standard		Test Level/Note	
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	BS EN/EN61000-4-2 BS EN/EN61000-4-3		Level 2	
		EFT/Burst				
	EMC IMMUNITY		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,	
		0407 41/4		·····	>95% interruptions 250 periods	
OTHERS	MTBF	2137.1Khrs min. Telcordia SR-332	2 (Bellcore) ; 186.7Kh	s min. MIL-HDB	K-217F (25℃)	
	DIMENSION	140*63*32mm (L*W*H)				
	PACKING	0.58Kg;24pcs/15Kg/0.85CUFT				
NOTE	1. All parameters NOT specially 2. Please refer to "DRIVING ME 3. Tolerance : includes set up to 4. De-rating may be needed un 5. Length of set up time is meas 6. Based on IEC 62386-101/10. DALI power on function, othe 7. Input over voltage only for XI 8. The driver is considered as a complete installation, the fina (as available on https://www. 9. The ambient temperature de	mentioned are measured at 230VAC input	ATIC CHARACTERISTIC" so a driver may lead to increas egulations, the set up time ne 300ms. SA certificate. ination with final equipment. y EMC Directive on the comp int_en.pdf) ; and of 5°C/1000m with fan r ttp://www.meanwell.com	ections for details. e of the set up time. eds to test with a DAL Since EMC performar lete installation again nodels for operating a	nce will be affected by the	







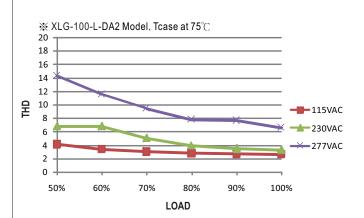
100W Constant Power Mode with DALI-2 LED Driver XLG-100-DA2 series





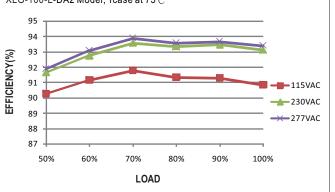
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TOTAL HARMONIC DISTORTION (THD)

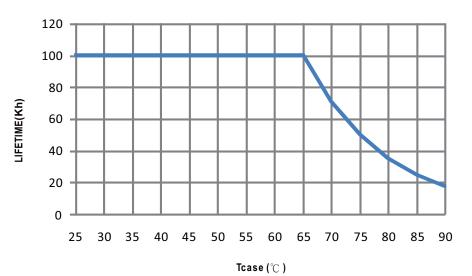


EFFICIENCY vs LOAD

XLG-100-DA2 series possess superior working efficiency that up to 92.5% can be reached in field applications. XLG-100-L-DA2 Model, Tcase at 75 $^\circ\!C$









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