

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







- Protection functions: SCP/OTP
- Life time >50,000 hrs. and 5 years warranty

Type HL for use in class I, Division 2

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

GTIN CODE

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℃~+90℃ 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

XLG - 100 I - L - DA2	
	— DA2: DALI-2 dimming function
	 Rated output voltage(L/H types)
	$\int \Box$: For standard version
	igll I:For India version(by request with Input over voltage protection)
	- Rated wattage
	— Series name

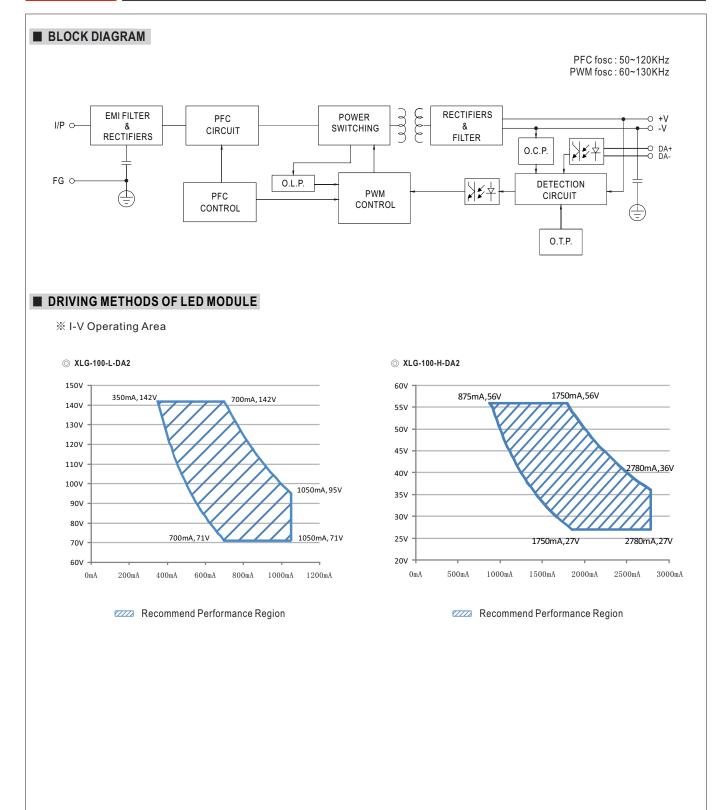
Туре	Function	Note
DA2	DALI-2 control technology with lo adjustable via built-in potentiometer	In Stock



SPECIFICATION

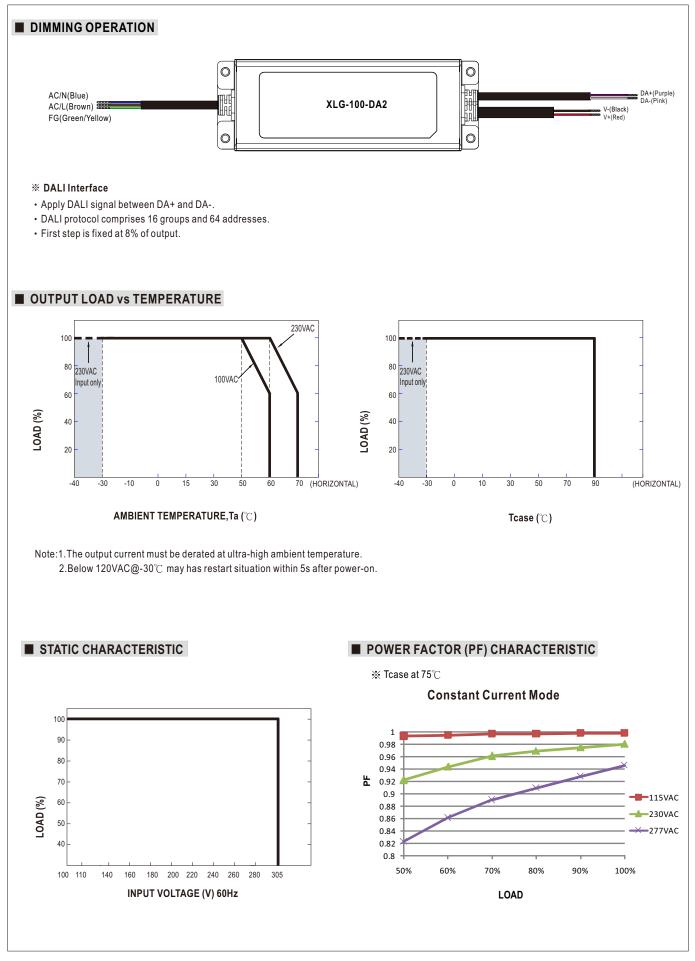
	XLG-100 -L-DA2		XLG-100 H-DA	2		
RATED CURRENT	700mA		2100mA			
RATED POWER	100W		100W			
CONSTANT CURRENT REGION Note.2	71 ~142V		27 ~ 56V			
ULL POWER CURRENT RANGE	700~1050mA		1750~2780mA			
OUTPUT	1700 2700mA					
. ,	(Via the built-in potentiometer)					
CURRENT ADJ. RANGE	350~1050mA 875~2780mA					
CURRENT RIPPLE						
OLTAGE RANGE Note.4	A					
REQUENCY RANGE	47 ~ 63Hz					
OWER FACTOR (Typ.)	$PF{\cong}0.97/115VAC, PF{\cong}0.95/230VAC, PF{\cong}0.92/277VAC$ 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					
EFFICIENCY (Typ.)	92.5%		91%			
AC CURRENT (Typ.)	1.1A/115VAC 0.5A/230VAC 0.42	2A/277VAC				
NRUSH CURRENT(Typ.)	COLD START 45A/twidth=330us measur	ed at 50% Ineak) at 230\/AC: Pe	Pr NEMA 410			
		ed at 50 /0 ipeak) at 250 VAO, 1 e				
CIRCUIT BREAKER	8 unit(circuit breaker of type B) / 14 units	s(circuit breaker of type C) at 2	30VAC			
	<0.75mA (277)/AC					
	NU.10IIIA/21/VAU					
	Standby power consumption <0.5W (Dir	mming OFF) (For standard vers	sion)			
CONSUMPTION		0 / (,			
SHORT CIRCUIT	Hiccup mode or Constant current limiting	g, recovers automatically after	fault condition is rem	oved		
	320 ~ 390VAC (Shut down output voltage)	when the input voltage exceeds	protection voltage, reco	overs automatically after fault condition is remo		
NFUT OVER VOLTAGE Note.7	Can survive input voltage stress of 440	/ac for 48 hours				
OVER TEMPERATURE	Stage 1: Derating to 75% loading: stage	2: Derating to 50% loading, re	covers automatically	after fault condition is removed		
			-			
	· · · · · · · · · · · · · · · · · · ·					
	-					
		sing				
TEMP. COEFFICIENT	±0.06%/°C (0~60°C)					
/IBRATION	10 ~ 500Hz, 5G 12min./1cycle, period fc	or 72min. each along X, Y, Z ax	tes			
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					
SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms /	/ 500VDC / 25℃/ 70% RH				
				Test Level/Note		
			215) GB/T 17743			
			B1/625.1	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		
	EFT/Burst	BS EN/EN61000-4-4		Level 3		
EMC IMMUNITY	Surge	BS EN/EN61000-4-5		4KV/Line-Line 6KV/Line-Earth		
	Conducted			Level 2		
	Conducted	BS EN/EN61000-4-6				
	Megnetic Field	DO ENVENICACIÓN A C		Laval 4		
	Magnetic Field	BS EN/EN61000-4-8		Level 4		
	Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-4-8 BS EN/EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods,		
	Voltage Dips and Interruptions	BS EN/EN61000-4-11		>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
ИТВF	•	BS EN/EN61000-4-11	s min. MIL-HDBł	>95% dip 0.5 periods, 30% dip 25 periods,		
MTBF DIMENSION	Voltage Dips and Interruptions	BS EN/EN61000-4-11	s min. MIL-HDBł	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
	REQUENCY RANGE OWER FACTOR (Typ.) OTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) IRUSH CURRENT(Typ.) IRUSH CURRENT(Typ.) AX. NO. of PSUs on 16A IRCUIT BREAKER EAKAGE CURRENT TANDBY POWER ONSUMPTION HORT CIRCUIT IPUT OVER VOLTAGE Note.7 VER TEMPERATURE /ORKING TEMP. AX. CASE TEMP. /ORKING TEMP. AX. CASE TEMP. /ORKING TEMP. IBRATION AFETY STANDARDS ALI STANDARDS	URRENT RIPPLE 4.0%(@ full load) URRENT TOLERANCE ±5% ET UP TIME 500ms/230VAC, 1200ms/115VAC OLTAGE RANGE Note.4 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTER! REQUENCY RANGE 47 ~ 63Hz OWER FACTOR (Typ.) PF ≥ 0.97 / 115VAC, PF ≥ 0.95 / 230VAC (Please refer to "Power Factor Character OTAL HARMONIC DISTORTION THD < 10% (@ load ≥ 50% at 115VAC/ Please refer to "TOTAL HARMONIC D FFICIENCY (Typ.) 92.5% C CURRENT (Typ.) 1.1A / 115VAC IRUSH CURRENT(Typ.) COLD START 45A(twidth=330µs measur AX. NO. of PSUs on 16A 8 unit(circuit breaker of type B) / 14 unit IRCUIT BREAKER 8 unit(circuit breaker of type B) / 14 unit EAKAGE CURRENT <0.75mA / 277VAC	URRENT RIPPLE 4.0%(@ full load) URRENT TOLERANCE ±5% ET UP TIME 500ms/230VAC, 1200ms/115VAC OLTAGE RANGE Note4 100 ~ 305VAC 142VDC ~ 431VDC Please refer to "STATIC CHARACTERISTIC" ang " DRIVING METHO REQUENCY RANGE 47 ~ 63Hz OWER FACTOR (Typ.) PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, PF≥0.92 / 277VAC at full load OTAL HARMONIC DISTORTION PF≥0.97 / 115VAC, PF≥0.95 / 230VAC, @load≥75% at 27 Please refer to "TOTAL HARMONIC DISTORTION (THD)" section 92.5% C CURRENT (Typ.) 1.1A / 115VAC 0.5A / 230VAC 0.424/277VAC RUSH CURRENT(Typ.) COLD START 45A(width=330µs measured at 50% (peak) at 230VAC; Pe AX. NO. of PSUs on 16A 8 unit(circuit breaker of type B) / 14 units(circuit breaker of type C) at 2 EAKAGE CURRENT <0.75mA / 277VAC	URRENT RIPPLE 4.0%(@ full load) URRENT TOLERANCE ±5% ET UP TIME 500ms/230VAC, 1200ms/115VAC OLTAGE RANGE Note.4 100 - 305VAC 142VDC - 431VDC (Please refer to "STATIC CHARACTERISTIC" ang * DRIVING METHODS OF LED MODULI REQUENCY RANGE 47 - 63Hz PF ≥ 0.97 / 115VAC, PF ≥ 0.95 / 230VAC, PF ≥ 0.92 / 277VAC at full load (Please refer to "Forwer Factor Characteristic" section) TALARMONIC DISTORTION THO < 10% (@ load ≥ 50% at 115VAC/230VAC, @ load ≥ 75% at 277VAC)		







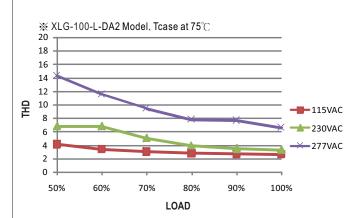
100W Constant Power Mode with DALI-2 LED Driver XLG-100-DA2 series





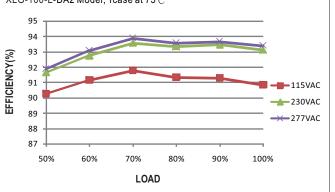
100W Constant Power Mode with DALI-2 LED Driver XLG-100-DA2 series

TOTAL HARMONIC DISTORTION (THD)

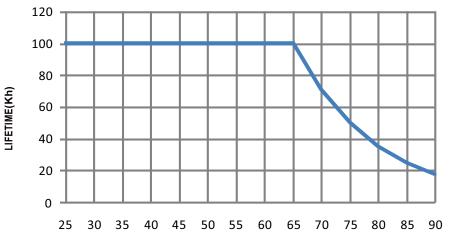


EFFICIENCY vs LOAD

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 $75^\circ\!C$







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



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

