

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 $-40^{\circ}C \sim +90^{\circ}C$ 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

XLG - 100 I - L - DA2	
	 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

NPUT AC NPUT AC NPU	ATED CURRENT ATED POWER ATED POWER INSTANT CURRENT REGION Note.2 PEN CIRCUIT VOLTAGE (max.) JRRENT ADJ. RANGE JRRENT RIPPLE JRRENT TOLERANCE ET UP TIME DLTAGE RANGE Note.4 REQUENCY RANGE DWER FACTOR (Typ.) DTAL HARMONIC DISTORTION FFICIENCY (Typ.) C CURRENT (Typ.) RUSH CURRENT(Typ.) AX. NO. of PSUs on 16A RCUIT BREAKER EAKAGE CURRENT	700~1050mA 158V (Via the built-in potentiometer) 350~1050mA 4.0%(@ full load) \pm 5% 500ms/230VAC, 1200ms/115VAC 100 ~ 305VAC 142VDC ~ 431VDC (Please refer to "STATIC CHARACTERI 47 ~ 63Hz PF \ge 0.97 / 115VAC, PF \ge 0.95 / 230VAC (Please refer to "Power Factor Character THD<10% (@ load \ge 50% at 115VAC/ Please refer to "TOTAL HARMONIC D 92.5% 1.1A / 115VAC 0.5A / 230VAC 0.42	ISTIC" ang " DRIVING METHODS OF LED MODL , PF ≥0.92 / 277VAC at full load ristic" section) 230VAC ,@load≥75% at 277VAC) ISTORTION (THD)" section 91%	JLE"section)				
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MA CIR LEA STA	AX. NO. of PSUs on 16A RCUIT BREAKER							
CIR LEA ST/ CO	RCUIT BREAKER		COLD START 45A(twidth=330µs measured at 50% lpeak) at 230VAC; Per NEMA 410					
LEA STA CO		8 unit(circuit breaker of type B) / 14 units(circuit breaker of type C) at 230VAC						
ST/ CO	AKAGE CURRENT							
со		<0.75mA / 277VAC						
	TANDBY POWER	Standby power concumption <0.51// /Dimming OEE/ /For standard version)						
	ONSUMPTION	Standby power consumption <0.5W (Dimming OFF) (For standard version)						
SH	IORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed						
		320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed						
ROTECTION INP	PUT OVER VOLTAGE Note.7	Can survive input voltage stress of 440Vac for 48 hours						
	VER TEMPERATURE	Stage 1: Derating to 75% loading; stage 2: Derating to 50% loading. recovers automatically after fault condition is removed						
	ORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)						
MA	AX. CASE TEMP.	Tcase=+90°C						
NVIRONMENT WO	ORKING HUMIDITY	20 ~ 95% RH non-condensing						
STO	FORAGE TEMP., HUMIDITY	-40 ~ +80 $^\circ \rm C$, 10 ~ 95% RH non-condensing						
TEM	MP. COEFFICIENT	±0.06%/°C (0~60°C)						
VIB	BRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
		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						
SA	AFETY STANDARDS							
		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						
DAI	ALI STANDARDS	Comply with IEC62386-101,102,207,251,Device type 6(DT6)						
WI	ITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC						
ISO	OLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms /	/ 500VDC / 25°C / 70% RH					
		Parameter	Standard	Test Level/Note				
		Conducted	BS EN/EN55015(CISPR15),GB/T17743					
		Radiated	BS EN/EN55015(CISPR15),GB/T17743					
EM	MC EMISSION	Harmonic Current	BS EN/EN61000-3-2 ,GB/T17625.1	Class C @load≥50%				
			,					
AFETY &		Voltage Flicker	BS EN/EN61000-3-3					
MC		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				
EM	NC IMMUNITY	Surge	BS EN/EN61000-4-5	4KV/Line-Line 6KV/Line-Earth				
1								
				Level 2				
		Conducted	BS EN/EN61000-4-6	Level 2				
				Level 4				
		Conducted	BS EN/EN61000-4-6	Level 4 >95% dip 0.5 periods, 30% dip 25 periods,				
		Conducted Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
MT	TBF	Conducted Magnetic Field	BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Level 4 >95% dip 0.5 periods, 30% dip 25 periods,				
DTHERS -		Conducted Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
DTHERS -	TBF	Conducted Magnetic Field Voltage Dips and Interruptions 2137.1Khrs min. Telcordia SR-33	BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Level 4 >95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods				







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





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





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 $75^\circ\!\mathrm{C}$





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