







Applications

GTIN CODE

LED street lighting

LED bay lighting

LED floodlighting

LED architectural lighting

• Type "HL" for use in Class I, Division 2

hazardous (Classified) location.

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



IS 15885 8

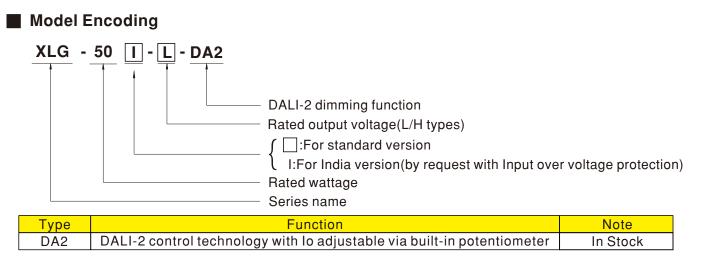
EL

### Features

- Constant Power mode output
- · Metal housing design with functional Ground
- Built-in active PFC function
- Class 2 power unit(except for L type)
- Standby power consumption <0.5W</li>
- · IP67 rating for indoor or outdoor installations
- 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
- Typical lifetime>50000 hours
- 5 years warranty

## Description

XLG-50-DA2 series is a 50W AC/DC LED driver featuring the constant power mode output. XLG-50-DA2 operates from 90~305VAC. Thanks to the high efficiency up to 89%, the entire series is able to operate between -40 C ~85 C wide case temperature range with air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. XLG-50-DA2 is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.XLG-50-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.



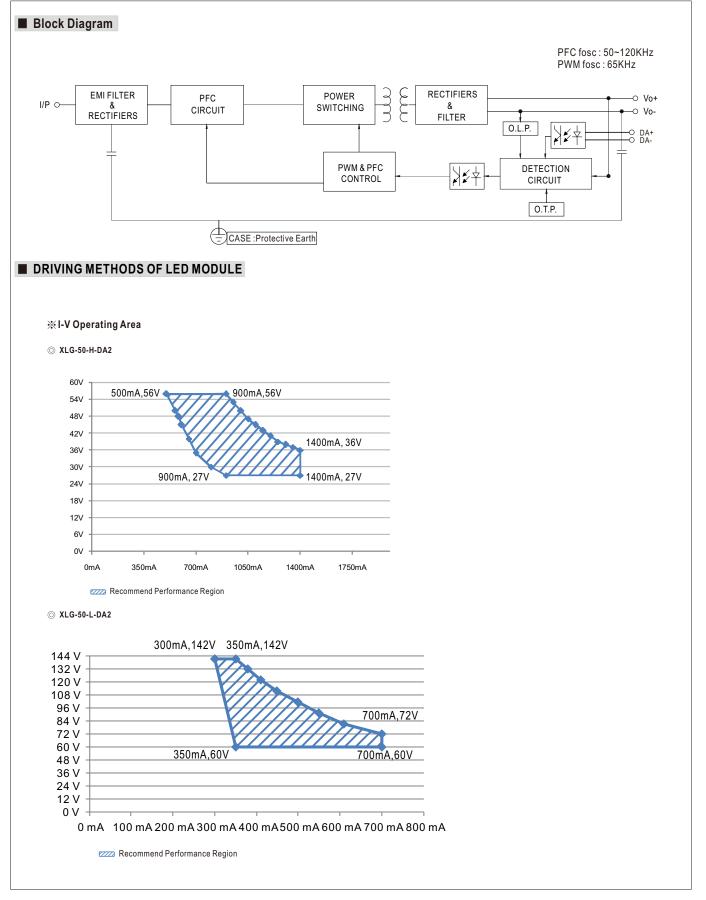


### SPECIFICATION

MODEL		XLG-50 -L-DA2		XLG-50 -H-DA2		
	RATED CURRENT (Default)	700mA		1050mA		
OUTPUT	RATED POWER	50W		50W		
	CONSTANT CURRENT REGION Note.2	60 ~ 142V		27 ~ 56V		
	FULL POWER CURRENT RANGE	350~700mA		900~1400mA		
	OPEN CIRCUIT VOLTAGE (max.)	160V		60V		
		(Via the built-in potentiometer)				
	CURRENT ADJ. RANGE	300~700mA 500~1400mA				
	CURRENT RIPPLE	300~700mA 500~1400mA 500~1400mA				
	CURRENT TOLERANCE	±5%				
	SET UP TIME	500ms/230VAC, 1200ms/115VAC				
INPUT	VOLTAGE RANGE Note.4	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)				
	FREQUENCY RANGE	47~63Hz				
	FREQUENCI RANGE	4/ ~ 03⊓Z PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load				
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
		THD<10%(@load≧50%/115VC,230VAC; @load≧75%/277VAC)				
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
	EFFICIENCY (Typ.) Note.15	90% 89%				
	AC CURRENT	0.57A/115VAC 0.29A/230VAC 0.24A/277VAC				
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=350µs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	7 units (circuit breaker of type B) / 12 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY	Standby power consumption <0.5W (Dimming OFF)(For standard version)				
	POWER CONSUMPTION					
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed				
PROTECTION	OVER TEMPERATURE	Stage 1: Derating to 75% loading; stage 2: Derating to 50% loading. recovers automatically after fault condition is removed				
	INPUT OVER VOLTAGE Note.7	320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is remove				
		Can survive input voltage stress of 440Vac for 48 hours				
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=+85℃				
	WORKING HUMIDITY	20~95%				
	STORAGE TEMP.	-40 ~ +80°C				
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)				
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min	n. each along X, Y, Z axe	S		
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC AS/NZS IEC BS EN/EN61347-1, BS EN/EN61347-2-13 (EL) appendix J suitable for emergency installations(DC Input: 176-280Vdc) independent, AS/NZS BS EN/EN61347-2-13, BS EN/EN62384;IP67; IS 15885(Part2/Sec13)(for XLG-50I-DA2 only);GB19510.1, GB19510.14, EAC TP TC 004 approved				
	DALI STANDARDS	Comply with IEC62386-101, 102, 207, 251 for DA2 Type only, Device type 6(DT6)				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VD	C/25°C/70% RH			
	EMC EMISSION	Parameter	Standard		Test Level/Note	
		Conducted		ISPR15) ,GB/T 17743		
		Radiated	BS EN/EN55015(C	ISPR15) ,GB/T 17743		
		Harmonic Current	BS EN/EN61000-3-	-2 ,GB17625.1	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	2	Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	BS EN/EN61000-4-3	3	Level 3	
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-4	1	Level 3	
		Surge	BS EN/EN61000-4-5	5	4KV/Line-Line 6KV/Line-Earth	
		Conducted	BS EN/EN61000-4-6	3	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/EN61000-4-1	11	>95% interruptions 250 periods	
	MTBF	2352.4K hrs min. Telcordia SR-332 (Bellcore) 207.3K hrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	105*63*30mm (L*W*H)	105*63*30mm (L*W*H)			
	PACKING	0.42Kg;24pcs/ 11Kg/0.81CUFT				
NOTE	<ol> <li>Please refer to "DRIVING METHOI</li> <li>Tolerance : includes set up tolerance</li> <li>Lo-rating may be needed under lov</li> <li>Length of set up time is measured</li> <li>Based on IEC 62386-101/102 DAL</li> <li>DALI power on function, otherwise</li> <li>Input over voltage only for XLG-50I</li> <li>The driver is considered as a comp complete installation, the final equip (as available on https://www.meanw</li> <li>The ambient temperature derating q</li> <li>Please refer to the warranty stater</li> <li>This series meets the typical life e</li> <li>Froducts sourced from the Americ</li> <li>For any application note and IP w https://www.meanwell.com/Upload</li> </ol>	e, line regulation and load regulation. w input voltages. Please refer to "STATIC CHARAC at first cold start. Turning ON/OFF the driver may le I power on timing and interruption regulations,the s the set up time will be longer than 500ms. series, and I series without UL/CSA certificate. onent that will be operated in combination with fina ment manufacturers must re-qualify EMC Directive vell.com/Upload/PDF/EML statement_en.pdf) of 3.5°C/1000m with fanless models and of 5°C/100 ment on MEAN WELL's website at http://www.mear spectancy of >50,000 hours of operation when Tca as regions may not have the CCC/PSE/BIS/KC log ater proof function installation caution, please refer //DF/LED_EN.pdf	CTERISTIC" sections for d ead to increase of the set et up time needs to test v al equipment. Since EMC o on the complete installat 20m with fan models for c nwell.com se, particularly (ic) point (i go. Please contact your M our user manual before u	Ietails. up time. with a DALI controller which of performance will be affected tion again. opperating altitude higher than or TMP, per DLC), is about 7 IEAN WELL sales for more i using.	by the 2000m(6500ft). '5°C or less.	
	<ol> <li>H type:RCM is on a voluntary bas L type:RCM is on a voluntary basi</li> </ol>	s and meets relevant IEC or AS/NZS standards co				
	L type:RCM is on a voluntary basi 15. The efficiency will drop 1% based	s and meets relevant IEC or AS/NZS standards co on India version	mplying with AS/NZS 441	17.1		
	L type:RCM is on a voluntary basi 15. The efficiency will drop 1% based 16. To fulfill requirements of the latest	s and meets relevant IEC or AS/NZS standards co	mplying with AS/NZS 441 an only be used behind a	17.1 a switch without permanently	connected to the mains. File Name:XLG-50-DA2-SPEC 2024-09	

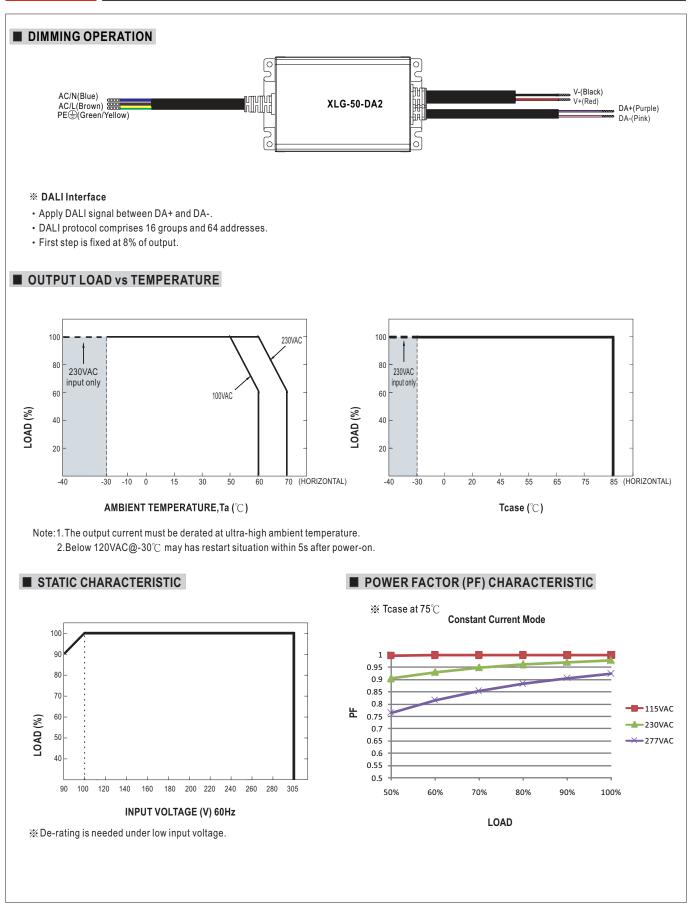


# 50W Constant Power Mode with DALI-2 LED Driver XLG-50-DA2 series



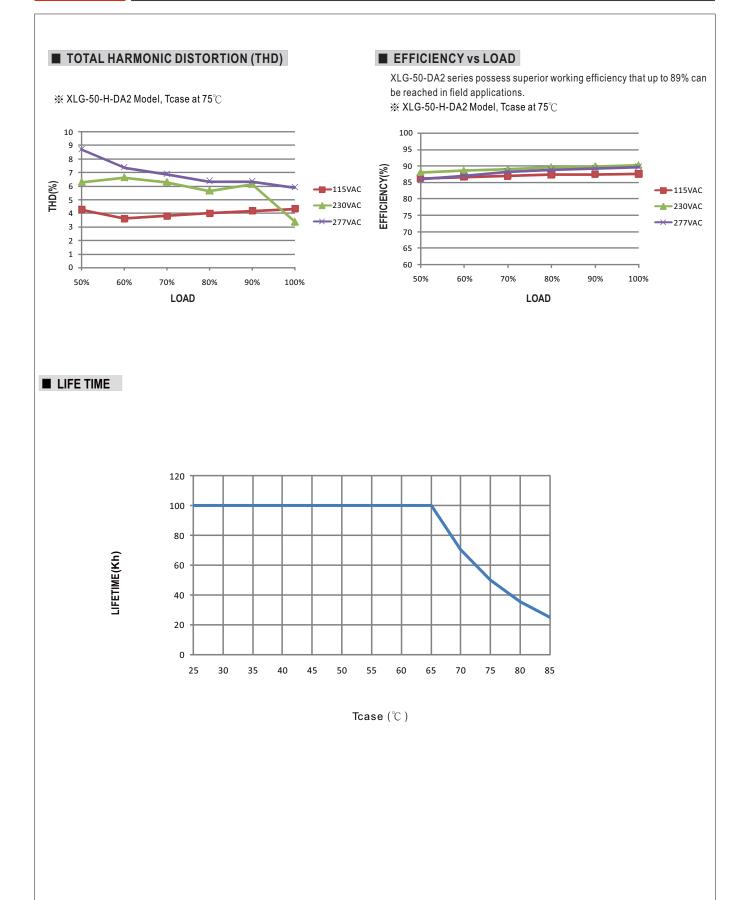


## 50W Constant Power Mode with DALI-2 LED Driver XLG-50-DA2 series





# 50W Constant Power Mode with DALI-2 LED Driver XLG-50-DA2 series





Mechanical Specification

# 50W Constant Power Mode with DALI-2 LED Driver XLG-50-DA2 series

#### CASE NO.: 268A Unit:mm Tolerance:±1 💥 DA2-Type 105 99 300±10 300±10 90 ∣₫ ₫ SJOW 17AWGx2C &05RN-F 1.0mm<sup>2</sup> <del>6</del> 8 V-(Black) V+(Red) AC/N(Blue) and a second 61.3 (tc AC/N(Blue) AC/L(Brown) H DA+(Purple) DA-(Pink) ŧΑ SJOW 17AWGx3C UL2517 20AWGx2C € Æ &H05RN-F 3x1.0mm2 325±10 **4-** *φ* **4**.5 • (tc) : Max. Case Temperature 8 25.8 9.9 $(\oplus)$ lo ADJ Recommend Mounting Direction **C**TT 7 7777 //// INSTALLATION MANUAL Please refer to : http://www.meanwell.com/manual.html

File Name:XLG-50-DA2-SPEC 2024-09-19