



IS 15885 8







LED street lighting

LED bay lighting

LED floodlighting

GTIN CODE

LED architectural lighting

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

hazardous (Classified) location.

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

Features

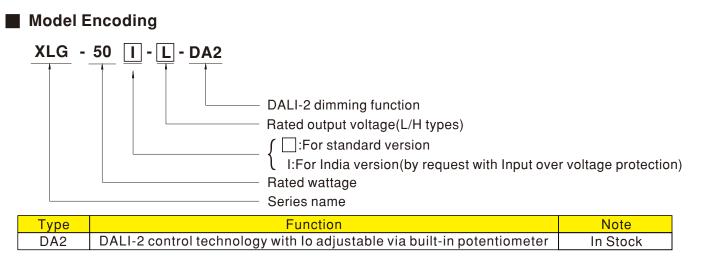
- Constant Power mode output
- · Metal housing design with functional Ground
- Built-in active PFC function
- Class 2 power unit(except for L type)
- Standby power consumption <0.5W
- · IP67 rating for indoor or outdoor installations
- Surge protection with 6KV/4KV
- DALI-2 Dimming with minimum level 8%
- India (EESL) version with Input Over Voltage Protection can survive input voltage stress of 440Vac for 48 hours

EL

- 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.



File Name:XLG-50-DA2-SPEC 2024-10-11

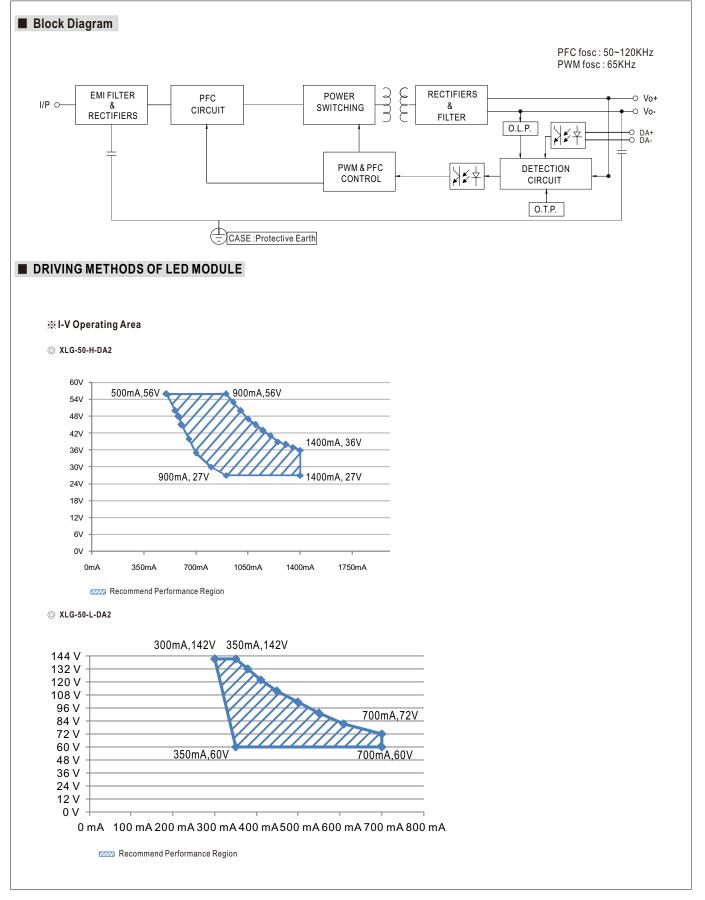


SPECIFICATION

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			
	CURRENT ADJ. RANGE	(Via the built-in potentiometer)			
		300~700mA 500~1400mA			
	CURRENT RIPPLE	5.0%(@ full load)			
	CURRENT TOLERANCE	±5%			
INPUT	SET UP TIME	500ms/230VAC, 1200ms/115VAC			
	VOLTAGE RANGE Note.4	90 ~ 305VAC 127 ~ 431VDC			
		(Please refer to "STATIC CHARACTERISTIC" section)			
	FREQUENCY RANGE				
	POWER FACTOR	PF ≥0.97/115VAC, PF ≥0.95/230VAC, PF ≥0.92/277VAC@full load (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 AC CURRENT				
	INRUSH CURRENT(Typ.)	0.57A/ 115VAC 0.29A / 230VAC 0.24A/277VAC COLD START 50A(twidth=350µs measured at 50% lpeak) at 230VAC; Per NEMA 410			
		COLD START SUA(twidth=SSups 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			
	CIRCUIT BREAKER	<pre><0.75mA/277VAC</pre>			
ļ	STANDBY POWER CONSUMPTION	Standby power consumption <0.5W (Dimming OFF)(For standard version)			
		Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT OVER TEMPERATURE	Stage 1: Derating to 75% loading; stage 2: Derating to 50% loading. recovers automatically after fault condition is removed			
PROTECTION		320 ~ 370VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed			
ENVIRONMENT	INPUT OVER VOLTAGE Note.7	Can survive input voltage stress of 440Vac for 48 hours			
	WORKING TEMP.	Tcase=-40 ~ +85°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+85°C			
	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.	each along X. Y. Z axes		
		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			
	SAFETY STANDARDS				
	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 / 500VDC	C/25℃/70% RH		
	EMC EMISSION	Parameter	Standard	Test Level/Note	
SAFETY & EMC		Conducted	BS EN/EN55015(CISPR15),GB/T 17743		
		Radiated	BS EN/EN55015(CISPR15),GB/T 17743		
		Harmonic Current	BS EN/EN61000-3-2 ,GB17625.1	Class C @load≥50%	
		Voltage Flicker	BS EN/EN61000-3-3		
	EMC IMMUNITY	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 3	
		EFT/Burst	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 3	
		Magnetic Field	BS EN/EN61000-4-8	Level 4	
			1	>95% dip 0.5 periods, 30% dip 25 periods,	
		Voltage Dips and Interruptions	BS EN/EN61000-4-11		
	MTBF			>95% interruptions 250 periods	
OTHERS	MTBF DIMENSION	2352.4K hrs min. Telcordia SR-332 (Bellcore)	BS EN/EN61000-4-11 207.3K hrs min. MIL-HDBK-217F (25°C)		
OTHERS	MTBF DIMENSION PACKING				
OTHERS NOTE	DIMENSION PACKING 1. All parameters NOT specially ment 2. Please refer to "DRIVING METHOD 3. Tolerance : includes set up tolerand 4. De-rating may be needed under low 5. Length of set up time is measured 6. Based on IEC 62366-101/102 DAL DALI power on function, otherwise 7. Input over voltage only for XLG-500 18. The driver is considered as a comp complete installation, the final equit (as available on https://www.meanweil. 9. The ambient temperature derating 10. Please refer to the warranty state 11. This series meets the typical life e 12. Products sourced from the Amerir 13. For any application note and IP w https://www.meanweil.com/Upload 4. H type:RCM is on a voluntary bas	2352.4K hrs min. Telcordia SR-332 (Bellcore) 105*63*30mm (L*W*H) 0.42Kg;24pcs/ 11Kg/0.81CUFT ioned are measured at 230VAC input, rated current is DS OF LED MODULE". ze, line regulation and load regulation. w input voltages. Please refer to "STATIC CHARACT at first cold start. Turning ON/OFF the driver may lead I power on timing and interruption regulations, the see the set up time will be longer than 500ms. I series, and I series without UL/CSA certificate. sonent that will be operated in combination with final oment manufacturers must re-qualify EMC Directive - vell.com//Upload/PDF/EMI_statement_en.pdf) of 3.5°C/1000m with fanless models and of 5°C/1000 ment on MEAN WELL's website at http://www.meams xpectancy of >50,000 hours of operation when Tcass as regions may not have the CCC/PSE/BIS/KC logg ater proof function installation caution, please refer of //PDF/LED_EN.pdf is. Non IC classification Independent LED control ge	207.3K hrs min. MIL-HDBK-217F (25°C) and 25°C of ambient temperature. 'ERISTIC' sections for details. ad to increase of the set up time. t up time needs to test with a DALI controller whic equipment. Since EMC performance will be affect on the complete installation again. Dm with fan models for operating altitude higher th well.com e, particularly (c) point (or TMP, per DLC), is abou o. Please contact your MEAN WELL sales for moi ur user manual before using. ar is not suitable for residential installations.	>95% interruptions 250 periods	
	DIMENSION PACKING 1. All parameters NOT specially ment 2. Please refer to "DRIVING METHOD 3. Tolerance : includes set up tolerand 4. De-rating may be needed under low 5. Length of set up time is measured 6. Based on IEC 62366-101/102 DAL DALI power on function, otherwise 7. Input over voltage only for XLG-500 18. The driver is considered as a comp complete installation, the final equit (as available on https://www.meanweil. 9. The ambient temperature derating 10. Please refer to the warranty state 11. This series meets the typical life e 12. Products sourced from the Amerir 13. For any application note and IP w https://www.meanweil.com/Upload 4. H type:RCM is on a voluntary bas	2352.4K hrs min. Telcordia SR-332 (Bellcore) 105*63*30mm (L*W*H) 0.42Kg;24pcs/ 11Kg/0.81CUFT ioned are measured at 230VAC input, rated current is DS OF LED MODULE". 29, line regulation and load regulation. w input voltages. Please refer to "STATIC CHARACT at first cold start. Turning ON/OFF the driver may lead 1 power on timing and interruption regulations, the set the set up time will be longer than 500ms. I series, and I series without UL/CSA certificate. Donent that will be operated in combination with final ment manufacturers must re-qualify EMC Directive - vell.com/Upload/PDF/EMI_statement_en.pdf) of 3.5°C/1000m with fanless models and of 5°C/1000 ment on MEAN WELL's website at http://www.mean xpectancy of >50,000 hours of operation when Tcass cas regions may not have the CCC/PSE/BIS/KC logo ater proof function installation caution, please refer o I/PDF/LED_EN.pdf is. Non IC classification Independent LED control ge is and meets relevant IEC or AS/NZS standards con	207.3K hrs min. MIL-HDBK-217F (25°C) and 25°C of ambient temperature. 'ERISTIC' sections for details. ad to increase of the set up time. t up time needs to test with a DALI controller whic equipment. Since EMC performance will be affect on the complete installation again. Dm with fan models for operating altitude higher th well.com e, particularly (c) point (or TMP, per DLC), is abou o. Please contact your MEAN WELL sales for moi ur user manual before using. ar is not suitable for residential installations.	>95% interruptions 250 periods	
	DIMENSION PACKING 1. All parameters NOT specially ment 2. Please refer to "DRIVING METHO) 3. Tolerance : includes set up tolerand 4. De-rating may be needed under log 5. Length of set up time is measured 6. Based on IEC 62366-101/102 DAL DALI power on function, otherwise 7. Input over voltage only for XLG-500 8. The driver is considered as a comp complete installation, the final equit (as available on https://www.meanw 9. The ambient temperature derating 10. Please refer to the warranty state 11. This series meets the typical life e 12. Products sourced from the Americ 13. For any application note and IP w https://www.meanwell.com/Upload 14. H type:RCM is on a voluntary bas 15. The efficiency will drop 1% based 16. To fulfill requirements of the lates:	2352.4K hrs min. Telcordia SR-332 (Bellcore) 105*63*30mm (L*W*H) 0.42Kg;24pcs/ 11Kg/0.81CUFT ioned are measured at 230VAC input, rated current is DS OF LED MODULE". 29, line regulation and load regulation. w input voltages. Please refer to "STATIC CHARACT at first cold start. Turning ON/OFF the driver may lead 1 power on timing and interruption regulations, the set the set up time will be longer than 500ms. I series, and I series without UL/CSA certificate. Donent that will be operated in combination with final ment manufacturers must re-qualify EMC Directive - vell.com/Upload/PDF/EMI_statement_en.pdf) of 3.5°C/1000m with fanless models and of 5°C/1000 ment on MEAN WELL's website at http://www.mean xpectancy of >50,000 hours of operation when Tcass cas regions may not have the CCC/PSE/BIS/KC logo ater proof function installation caution, please refer o I/PDF/LED_EN.pdf is. Non IC classification Independent LED control ge is and meets relevant IEC or AS/NZS standards con	207.3K hrs min. MIL-HDBK-217F (25°C) and 25°C of ambient temperature. "ERISTIC" sections for details. ad to increase of the set up time. t up time needs to test with a DALI controller which equipment. Since EMC performance will be affect on the complete installation again. Dm with fan models for operating altitude higher th well.com e, particularly (© point (or TMP, per DLC), is about b. Please contact your MEAN WELL sales for more ur user manual before using. erar is not suitable for residential installations. hplying with AS/NZS 4417.1	>95% interruptions 250 periods	

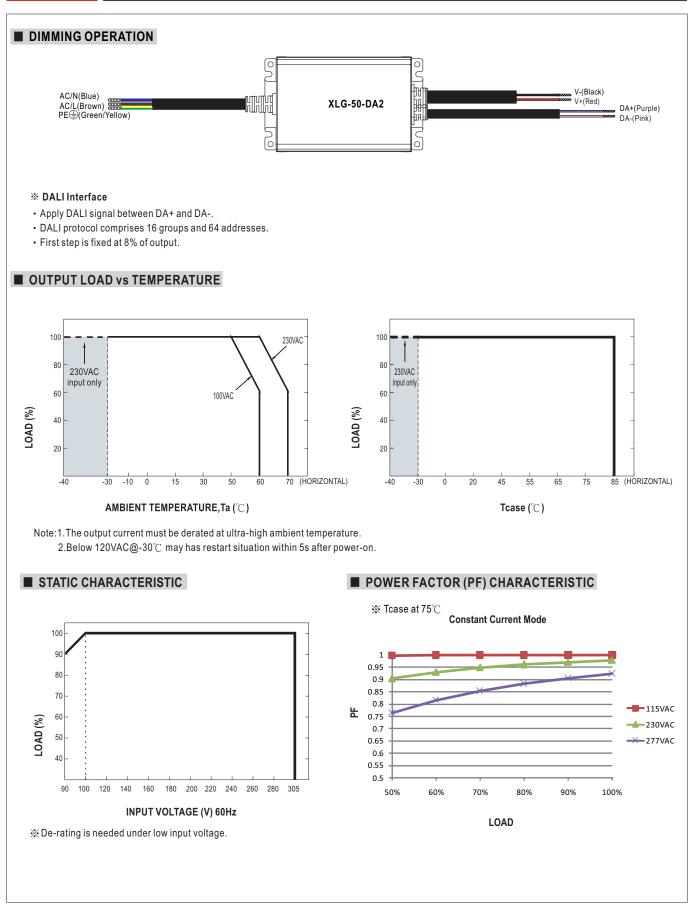


50W Constant Power Mode with DALI-2 LED Driver XLG-50-DA2 series





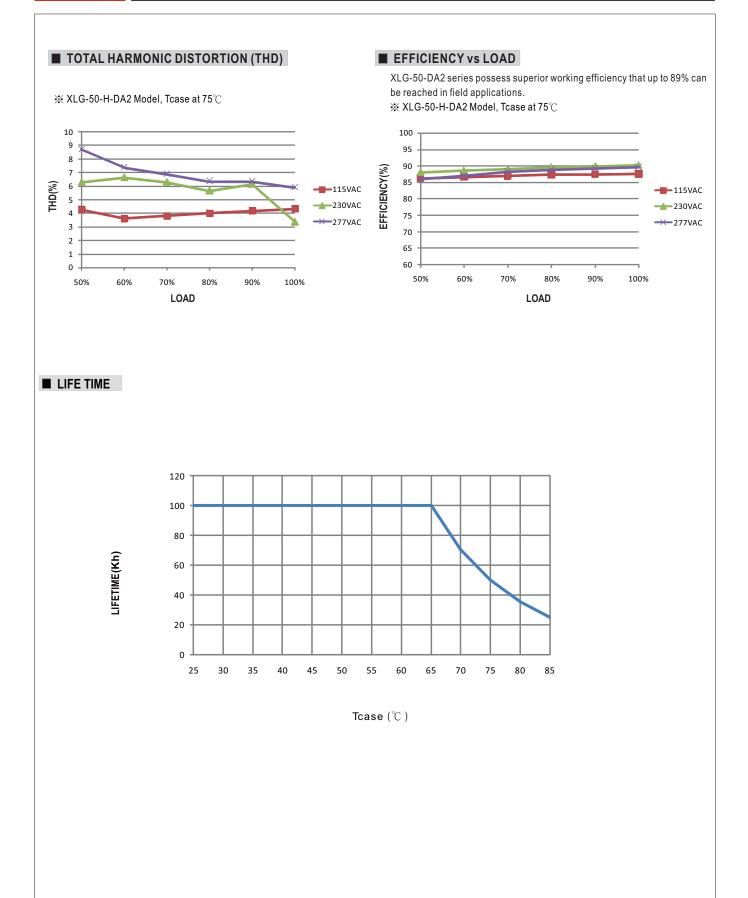
50W Constant Power Mode with DALI-2 LED Driver XLG-50-DA2 series



File Name:XLG-50-DA2-SPEC 2024-10-11



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 1.0mm² 6 8 V-(Black) V+(Red) AC/N(Blue) and a second 61.3 (tc AC/N(Blue) AC/L(Brown) DA+(Purple) DA-(Pink) hΑ 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) ADJ Recommend Mounting Direction **C**TT 7 7777 //// INSTALLATION MANUAL Please refer to : http://www.meanwell.com/manual.html