





Features

- Wide input range 100~305VAC(Class I)
- Metal case with IP67, suitable for outdoor application
- Surge protection with 6KV/4KV
- Protection functions: OVP/SCP/OCP/OTP
- Life time >50,000 hrs. and 5 years warranty

Applications

- Skyscraper lighting
- · Street lighting
- · Floodlight Lighting
- Stage lighting
- Fishing lighting
- · Horticulture lighting
- · Bay lighting
- DMX power supply
- Type HL for use in class I , Division 2











SPECIFICATION

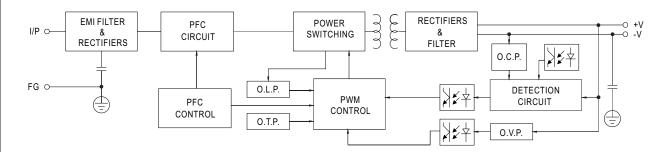
ORDER NAME		XLG-100-H-ADI		
MODEL		XLG-100-H-A		
DC VOLTAGE		48V		
OUTPUT	CONSTANT CURRENT REGION Note.2			
	RATED CURRENT	2.08A		
	RATED CORRENT	99.8W		
	RIPPLE & NOISE (max.) Note.3			
	CURRENT ADJ RANGE	1.04~2.08A		
	VOLTAGE TOLERANCE Note.4 LINE REGULATION	±0.5%		
		±1%		
	LOAD REGULATION	600ms, 100ms/230VAC, 1200ms, 100ms/115VAC		
	SETUP, RISE TIME Note.6	12ms/ 230VAC 12ms/ 115VAC		
	HOLD UP TIME (Typ.)			
INPUT	VOLTAGE RANGE Note.5	100 ~ 305VAC 142 ~ 431VDC	NOTION ti)	
		(Please refer to "STATIC CHARACTER	RISTIC" Section)	
	FREQUENCY RANGE	47 ~ 63Hz	DE> 0.00/0771/4.0.07 H.L. I	
	POWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC,		
	TOTAL HARMONIC DISTORTION	THD< 10%(@load≧50%/115VC,230\	/AC; @load≧80%/277VAC)	
	EFFICIENCY (Typ.)	91%		
	AC CURRENT	1.1A / 115VAC 0.5A / 230VAC 0.4	12A/277VAC	
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=300µs measured at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A	Sunits (circuit breaker of type R) / 14 up	nits (circuit breaker of type C) at 230VAC	
	CIRCUIT BREAKER			
	LEAKAGE CURRENT	<0.75mA / 277VAC		
PROTECTION	OVED CURRENT	95 ~ 108%		
	OVER CURRENT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed		
	SHORT CIRCUIT	Hiccup mode or Constant current limiting, recovers automatically after fault condition is removed		
		54 ~ 62V		
	OVER VOLTAGE	Shut down output voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down output voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+90°C		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +90°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0~60°C)		
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	VIDRATION			
	SAFETY STANDARDS Note.7	UL8750(type"HL"), UL879, CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; GB19510.1, GB19510.14;		
		EAC TP TC 004;J61347-1(H29), J61347-2-13(H29),KC61347-1,KC61347-2-13; IP67 approved		
	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		
	EMC EMISSION	Parameter	Standard	Test Level/Note
		Conducted	EN55015(CISPR15),GB/T17743	
EMC SAFETY &		Radiated	EN55015(CISPR15),GB/T17743	
		Harmonic Current	EN61000-3-2, GB/T17625.1	Class C @load≥50%
		Voltage Flicker	EN61000-3-3	
		EN61547		
		Parameter	Standard	Test Level/Note
		ESD	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
		Radiated	EN61000-4-3	Level 3
	EMC IMMUNITY	EFT/Burst	EN61000-4-4	Level 3
		Surge	EN61000-4-5	4KV/Line-Line 6KV/Line-Earth
		Conducted	EN61000-4-6	Level 3
		Magnetic Field	EN61000-4-8	Level 4
		Magnetic Field	EN01000-4-8	
		Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods
	мтрг	4000 40K has asia Talagadia CD 22	2 (Dellaces)	
OTHERS	MTBF	1006.16K hrs min. Telcordia SR-332 (Bellcore); 276.37Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	140*63*32mm (L*W*H)		
	PACKING	0.58Kg;24pcs /15Kg /0.85CUFT		RAIE A RI VA/IE
OTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. Please refer to "DRIVING METHODS OF LED MODULE". 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 4. Tolerance: includes set up tolerance, line regulation and load regulation. 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. 8. The ambient temperature derating of 3.5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 9. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com			
	This series meets the typical Products sourced from the A For any application note and https://www.meanwell.com/Up	life expectancy of >50,000 hours of oper mericas regions may not have the PSE/C IP water proof function installation cautio load/PDF/LED_EN.pdf	ation when Tcase, particularly (c) point (or TN CCC/BIS/KC logo. Please contact your MEAN n, please refer our user manual before using.	WELL sales for more information.



100W Constant Voltage + Constant Current Mode LED Driver XLG-100-H-ADI

■ BLOCK DIAGRAM

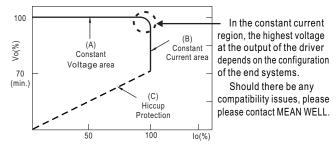
PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

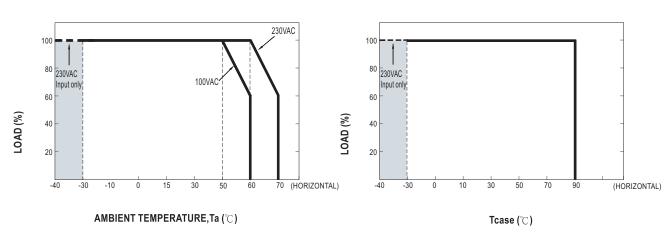
※ I-V Operating Area

※ This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.



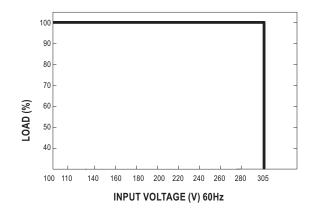
Typical output current normalized by rated current (%)

■ OUTPUT LOAD vs TEMPERATURE

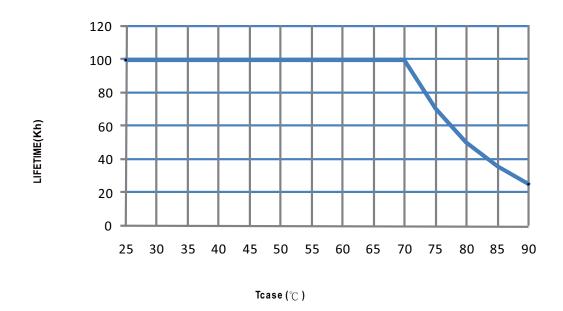


The maximum workable Ta is 60° C (Typ. 230VAC) or 50° C (Typ. 100VAC) Below 110VAC@ -30 $^\circ$ C may retry to 2nd setup

■ STATIC CHARACTERISTIC



■ LIFE TIME

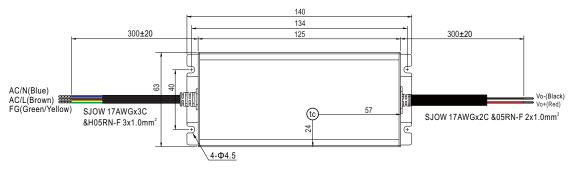




100W Constant Voltage + Constant Current Mode LED Driver XLG-100-H-ADI

■ MECHANICAL SPECIFICATION

Case No.:275B Unit:mm



• (tc): Max. Case Temperature

