



# 4LIGHT

Eficiencia tecnológica e innovación  
Experiencia en el desarrollo de tecnología LED

## Fuente XLG-150

Potencia constante directa para LEDS



### Características

- Caja metálica estanca IP67 apropiada para exteriores.
- Rango de entrada 100-305V AC a 47-63Hz.
- Potencia máxima de salida entre 700-1050mA.
- Potencia: 150W.
- Potenciometro interno para ajustar la corriente de salida.
- Clase de entrada I con toma de tierra.
- Factor corrector de potencia >0,95 a 230Vca a plena carga.
- Protección frente a sobretensiones 6KV/4KV (10KV/6KV opcional).
- Protección frente a sobrecargas, cortocircuitos, temperatura y sobre tensión de salida.
- Con homologación HL clase I división 2 para zonas explosivas en EEUU.
- Rango de temperatura de funcionamiento de caja Tc desde -40°C hasta +90°C.
- Funciones de protección OVP/SCP/OCP/OTP.
- Vida útil >50.000 horas
- 5 años de garantía.
- Certificaciones:



Producto de la firma:



### Aplicación

Iluminación de edificios, alumbrado público, iluminación reflectante, iluminación de escenarios, iluminación portuaria, horticultura, focos, tiras de luz estancas y paneles publicitarios con control DMX, etc.

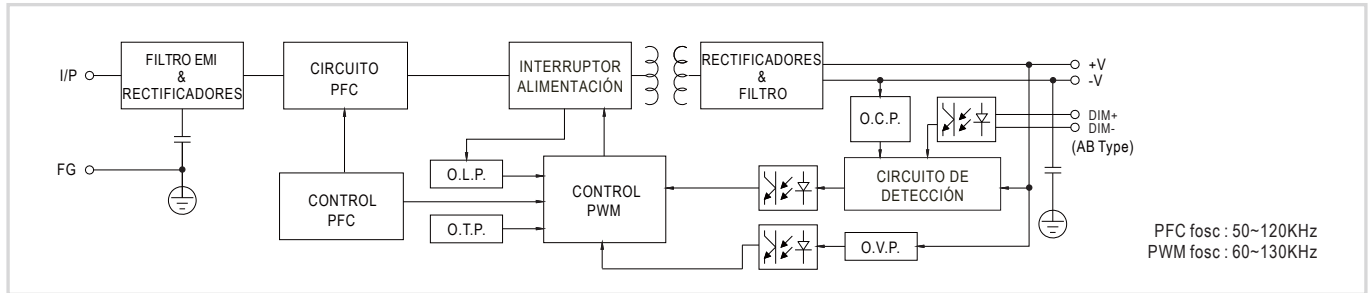
### Parámetros

Artículo	Voltaje	Rango entrada universal	Rango Frecuencia	Tensión de salida	Intensidad de salida	Potencia	Dimensiones	Eficiencia	Factor Corrector Potencia	Temperatura de trabajo - Caja Tc
XLG-150-12	12V	100-305VCA	47 ~ 63HZ	12VCC	12,5A	150W	180x63x35,5mm	91,5%	>0.95 a 230VCA	-40°C a 90°C

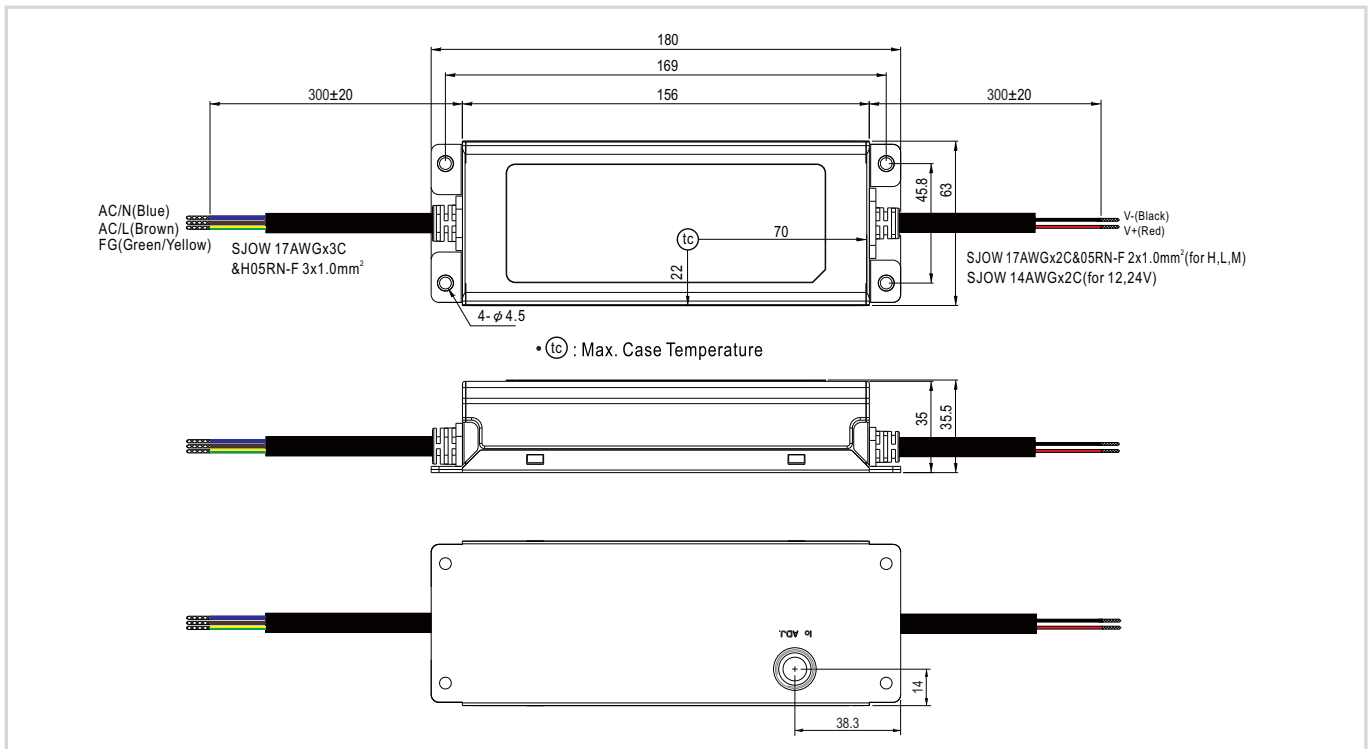
Artículo	Voltaje	Rango entrada universal	Rango Frecuencia	Tensión de salida	Intensidad de salida	Potencia	Dimensiones	Eficiencia	Factor Corrector Potencia	Temperatura de trabajo - Caja Tc
XLG-150-24	24V	100-305VCA	47 ~ 63HZ	24VCC	6,25A	150W	180x63x35,5mm	93%	>0.95 a 230VCA	-40°C a 90°C



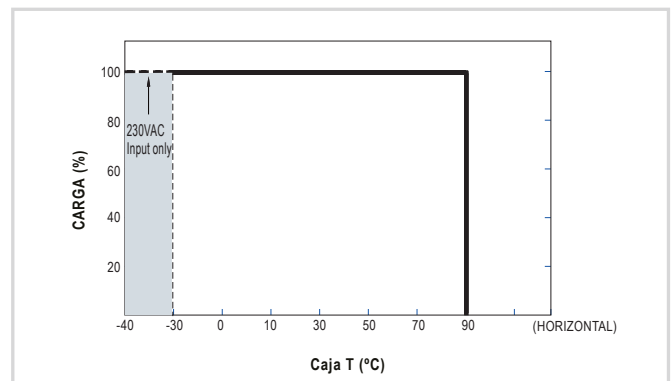
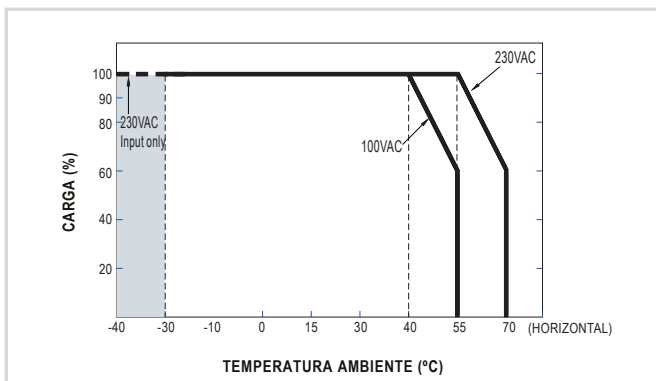
## Diagrama de bloques



## Dimensiones (unidades en mm)

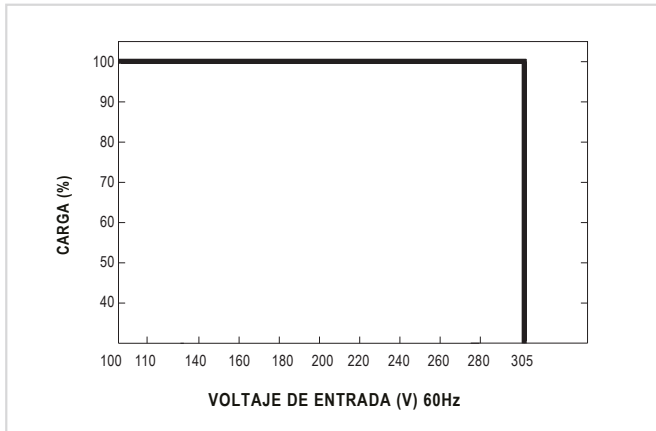


## Carga de salida vs Temperatura

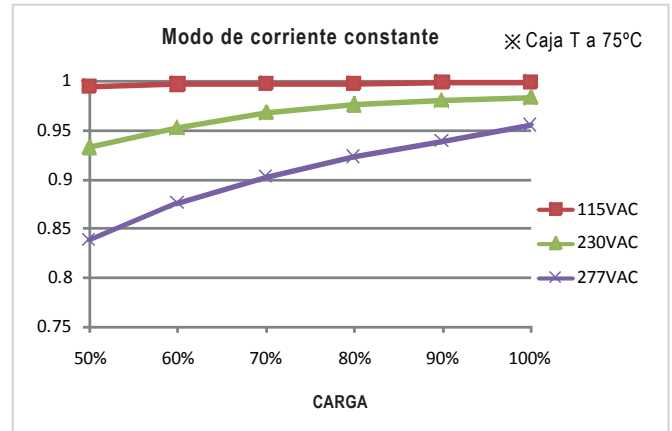




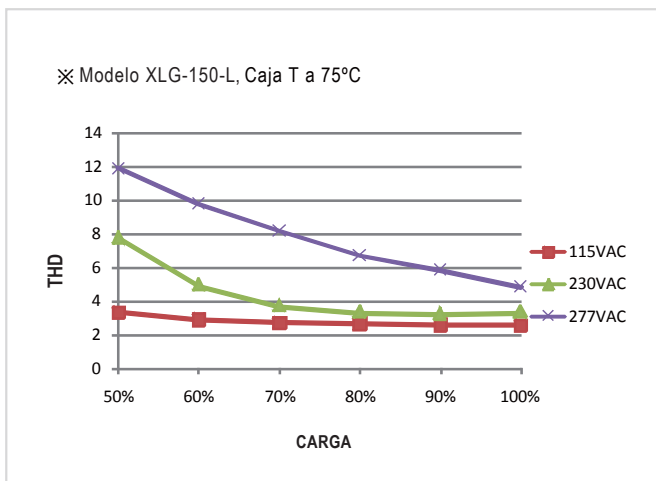
## Estática



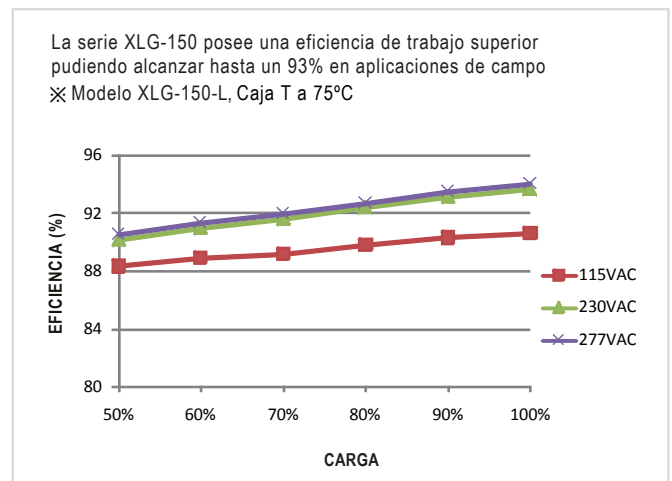
## Factor de potencia (PF)



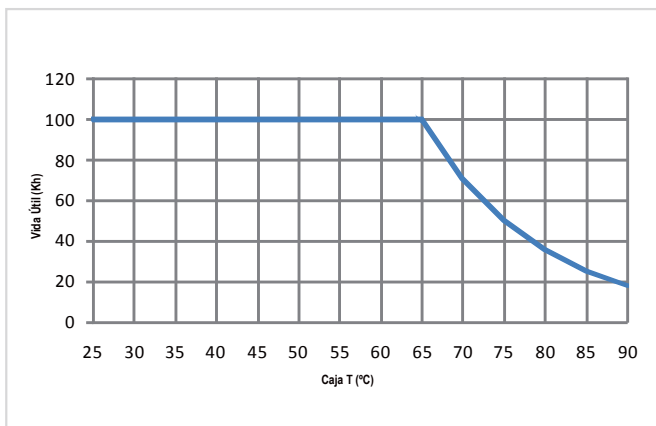
## Distorsión armónica total (THD)



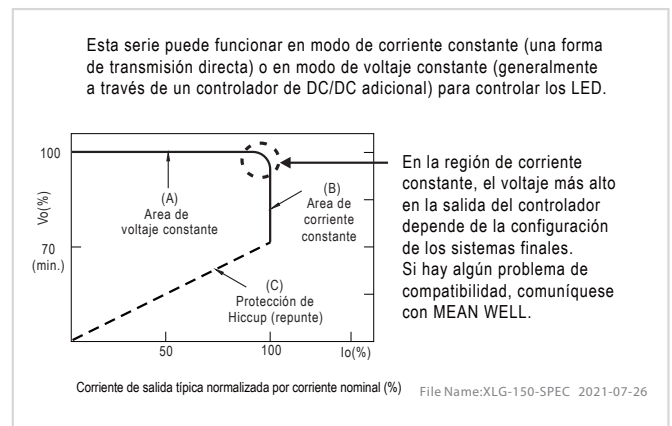
## Eficiencia VS Carga



## Vida útil



## Método de conducción del módulo led





## Otros datos ofrecidos por Mean Well

MODEL	XLG-150□-12-□	XLG-150□-24-□		
OUTPUT	DC VOLTAGE	12V	24V	
	CONSTANT CURRENT REGION <small>Note.2</small>	8.4~ 12V	16.8~ 24V	
	RATED CURRENT	12.5A	6.25A	
	RATED POWER	150W	150W	
	RIPPLE & NOISE (max.) <small>Note.3</small>	150mVp-p	240mVp-p	
	CURRENT ADJ. RANGE	Adjustable for A-Type only (via the built-in potentiometer)		
		6.5~ 12.5A	3.2~ 6.25A	
	VOLTAGE TOLERANCE <small>Note.4</small>	±3.0%	±2.0%	
	LINE REGULATION	±0.5%	±0.5%	
	LOAD REGULATION	±2%	±1%	
SETUP, RISE TIME <small>Note.5</small>	500ms, 100ms/230VAC, 1200ms, 100ms/115VAC			
HOLD UP TIME (Typ.)	10ms/ 230VAC 10ms/ 115VAC			
INPUT	VOLTAGE RANGE <small>Note.5</small>	100 ~ 305VAC 142 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR	PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load		
	TOTAL HARMONIC DISTORTION	THD < 10% (@load ≥ 50%/115VAC, 230VAC; @load ≥ 75%/277VAC)		
	EFFICIENCY (Typ.)	91.5%	93%	
	AC CURRENT	1.8A / 115VAC 1.0A / 230VAC 0.8A/277VAC		
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=500µs measured at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 8 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 277VAC		
	NO LOAD POWER CONSUMPTION	No load power consumption <0.5W(for standard version)		
PROTECTION	OVER CURRENT	95 ~ 108% 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		
	OVER VOLTAGE	13.5 ~ 18V	27 ~ 34V	
	INPUT OVER VOLTAGE <small>Note.7</small>	320 ~ 390VAC (Shut down output voltage when the input voltage exceeds protection voltage, recovers automatically after fault condition is removed) Can survive input voltage stress of 440Vac for 48 hours @ tc 75°C max		
	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	±0.06%/°C (0 ~ 60°C)		
VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS <small>Note.7</small>	UL8750(type "HL"), UL679, CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; GB19510.1, GB19510.14; EAC TP TC 004; J61347-1(H29), J61347-2-13(H29), KC61347-1, KC61347-2-13, IS15885(Part2/Sec13) (for XLG-150I type only); NOM-058-SCFI-2017 (except for Blank type); 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 / 500VDC / 25°C / 70% RH		
	EMC EMISSION	Parameter	Standard	Test Level/Note
		Conducted	BS EN/EN55015(CISPR15), GB/T17743	-----
		Radiated	BS EN/EN55015(CISPR15), GB/T17743	-----
		Harmonic Current	BS EN/EN61000-3-2, GB/T17625.1	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 2
		EFT/Burst	BS EN/EN61000-4-4	Level 3
		Surge	BS EN/EN61000-4-5	4kV/Line-Line 6kV/Line-Earth(6K/10K option)
		Conducted	BS EN/EN61000-4-6	Level 2
Magnetic Field		BS EN/EN61000-4-8	Level 4	
Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods		
OTHERS	MTBF	712.17K hrs min. Telcordia SR-332 (Bellcore); 213.3Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	180*63*35.5mm (L*W*H)		
	PACKING	0.8Kg; 16pcs / 13.4Kg / 0.67CUFT		
NOTE	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>Input over voltage only for XLG-150 I series, and I series without UL/CSA certificate.</li> <li>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.</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</li> <li>Please refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a></li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (C) point (or TMP, per DLC), is about 75°C or less.</li> <li>Products sourced from the Americas regions may not have the CCC/PSE/BS/KC logo. Please contact your MEAN WELL sales for more information.</li> <li>For any application note and IP water proof function installation caution, please refer our user manual before using. <a href="https://www.meanwell.com/Upload/PDF/LED_EN.pdf">https://www.meanwell.com/Upload/PDF/LED_EN.pdf</a></li> <li>To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains.</li> <li>If you need the NOM (Mexico) certificate, Please contact MEAN WELL sales representative for details.</li> </ol>			
<small>× Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></small>			<small>File Name: XLG-150-SPEC 2021-07-26</small>	