



# 4LIGHT

Eficiencia tecnológica e innovación  
Experiencia en el desarrollo de tecnología LED

## Fuente HLG-320H-12

264w  
Potencia

12v  
Voltaje

90-305  
VCA

IP67

Exteriores

LED Driver de voltaje constante + corriente constante de 264W para exteriores & interiores.

### Características

- Salida de modo de voltaje constante + corriente constante para tiras LED y bombillas LED.
- LED Driver de clase I.
- Carcasa de metal con diseño de clase I con toma de tierra.
- IP67 para instalaciones en interiores o exteriores.
- Función PFC activa integrada.
- Vida útil típica > 62000 horas.
- 7 años de garantía.
- Certificaciones:



Producto de la firma:



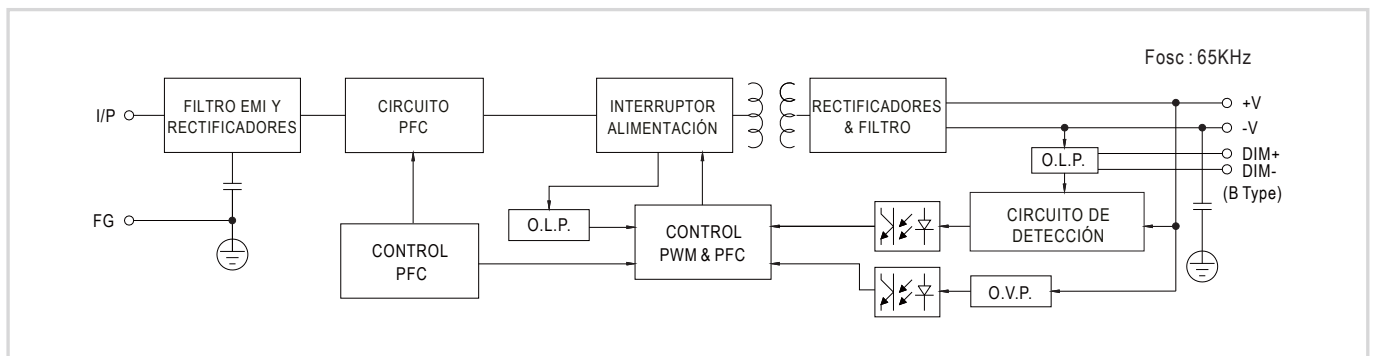
### Aplicación

Alumbrado público LED, iluminación LED de gran altura, iluminación de espacios de estacionamiento, lámpara de pesca LED e iluminación LED para invernaderos.

### Parámetros

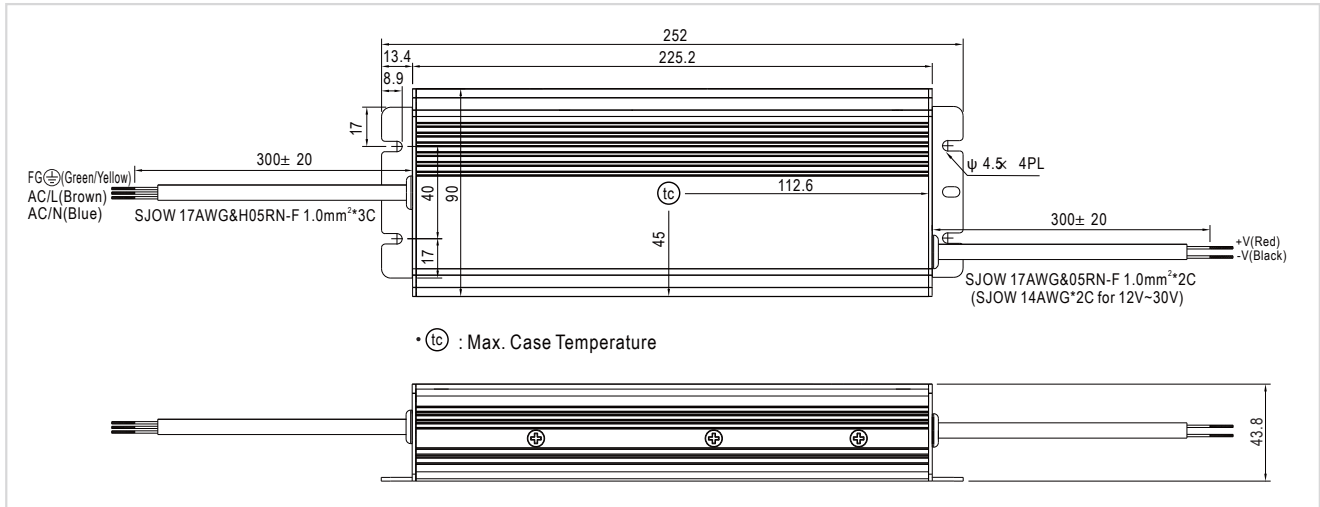
Artículo	Voltaje	Rango entrada universal	Rango Frecuencia	Tensión de salida	Intensidad de salida	Potencia	Dimensiones	Eficiencia	Aislamiento entrada y salida	Factor corrector de potencia	Temperatura de trabajo
HLG-320H-12	12V	90-305VCA	47 ~ 63HZ	12VCC	0 ~ 22A	264W	252 x 90 x 43,8mm	91%	3750VCA	>0,95	-40°C a 70°C

### Diagrama de bloques

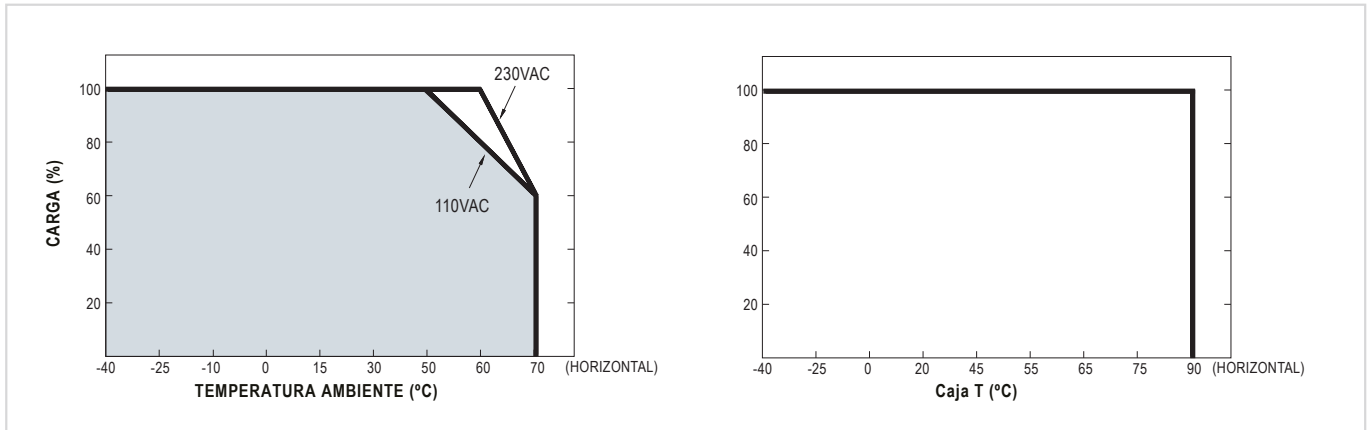




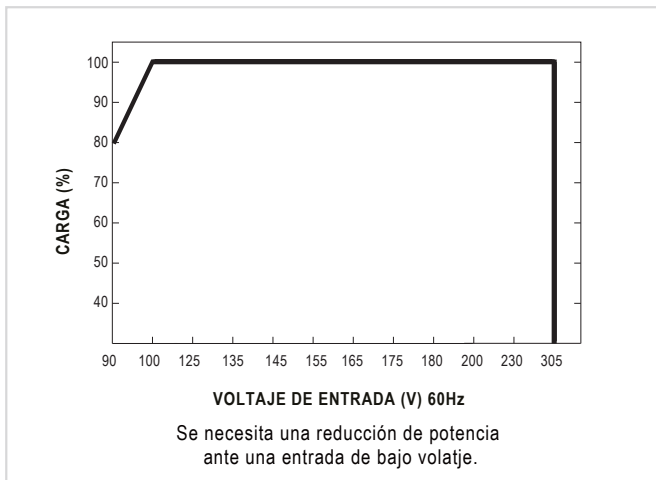
## Dimensiones (unidades en mm)



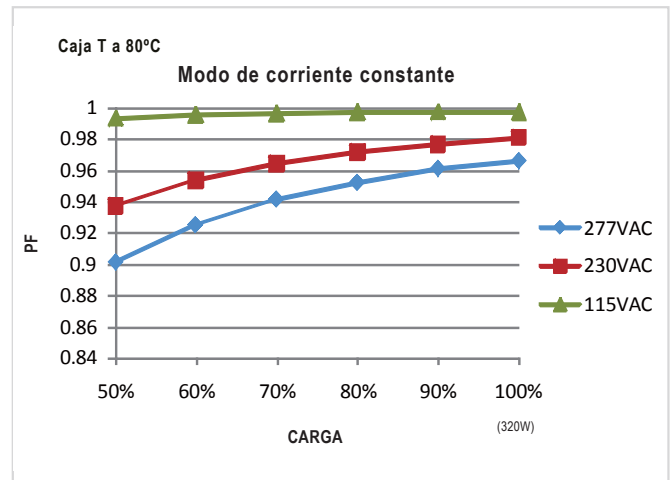
## Carga de salida VS Temperatura



## Estática



## Factor de potencia (PF)





## Otros datos ofrecidos por Mean Well 1/3

### SPECIFICATION

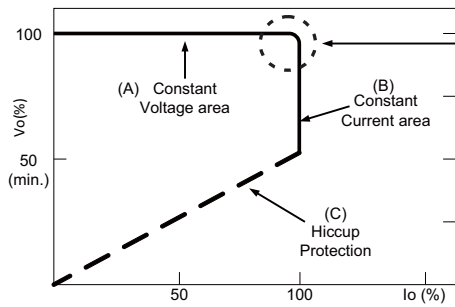
MODEL	HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54	
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	CONSTANT CURRENT REGION <small>Note.4</small>	6 ~ 12V	7.5 ~ 15V	10 ~ 20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24 ~ 48V	27 ~ 54V
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W
	RIPPLE & NOISE (max.) <small>Note.2</small>	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE	Adjustable for A/C-Type only (via built-in potentiometer) 10.8 ~ 13.5V   13.5 ~ 17V   17 ~ 22V   21 ~ 26V   26 ~ 32V   32 ~ 39V   38 ~ 45V   43 ~ 52V   49 ~ 58V								
	CURRENT ADJ. RANGE	Adjustable for A/AB/C-Type only (via built-in potentiometer) 11 ~ 22A   9.5 ~ 19A   7.5 ~ 15A   6.67 ~ 13.34A   5.35 ~ 10.7A   4.45 ~ 8.9A   3.8 ~ 7.65A   3.35 ~ 6.7A   2.97 ~ 5.95A								
	VOLTAGE TOLERANCE <small>Note.3</small>	± 3.0%	± 2.0%	± 1.5%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	LOAD REGULATION	± 2.0%	± 1.5%	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
SETUP, RISE TIME <small>Note.6</small>	2500ms,80ms/115VAC   500ms,80ms/230VAC									
HOLD UP TIME (Typ.)	15ms / 115VAC, 230VAC									
INPUT	VOLTAGE RANGE <small>Note.5</small>	90 ~ 305VAC   127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF ≥ 0.98/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.94/277VAC @ full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
	TOTAL HARMONIC DISTORTION	THD < 20% (@ load ≥ 50% / 115VAC, 230VAC; @ load ≥ 75% / 277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)								
	EFFICIENCY (Typ.) (230VAC)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%
	EFFICIENCY (Typ.) (277VAC)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%
	AC CURRENT (Typ.)	3.5A / 115VAC		1.65A / 230VAC		1.45A / 277VAC				
	INRUSH CURRENT (Typ.)	COLD START 70A (width=1010µs measured at 50% Ipeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	< 0.75mA / 277VAC								
PROTECTION	OVER CURRENT <small>Note.4</small>	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	14 ~ 17V	17.5 ~ 21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5 ~ 53V	53.5 ~ 60V	59 ~ 65V
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover								
	WORKING TEMP.	Tcase = -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
ENVIRONMENT	MAX. CASE TEMP.	Tcase = +90°C								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.0-08; EN/AS/NZS 61347-1, EN/AS/NZS 61347-2-13, EN62384 independent; GB19510.1, GB19510.14(except for C,D-type); IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (for A,B,Blank-type only), EAC TP TC 004; KC61347-1, KC61347-2-13(except for AB,C-type) 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	Compliance to EN55015, EN55032 (CISPR32) Class B, EN61000-3-2 Class C (@ load ≥ 50%); EN61000-3-3, EN61000-3-3, GB/T 17743 and GB17625(except for C,D-type), EAC TP TC 020, PSE J55015(for A,B,Blank-type only), KC K00015(except for AB,C-type)								
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020, KC K61547(except for AB,C-type)								
OTHERS	MTBF	157.1K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	252*90*43.8mm (L*W*H)								
	PACKING	1.88Kg; 8pcs/16Kg/0.92CUFT								
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>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µf &amp; 47µf parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Please refer to "DRIVING METHODS OF LED MODULE".</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>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>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.</li> <li>This series meets the typical life expectancy of &gt;62,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is about 75°C or less.</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>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>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> </ol>									



## Otros datos ofrecidos por Mean Well 2/3

### DRIVING METHODS OF LED MODULE

※ 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.

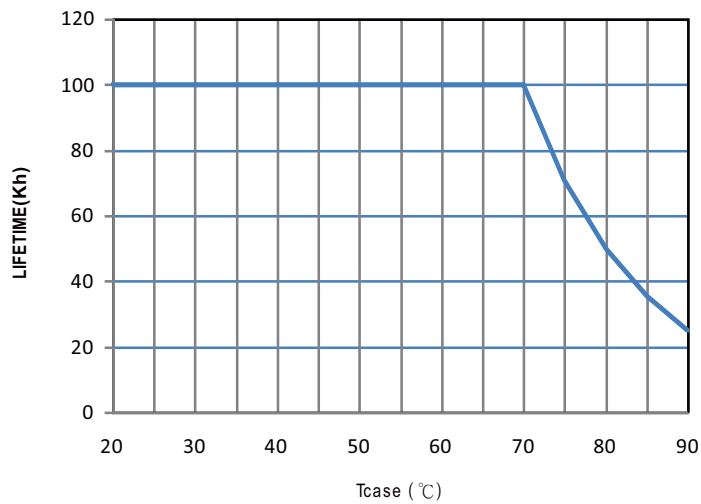


In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

Typical output current normalized by rated current (%)

### LIFE TIME



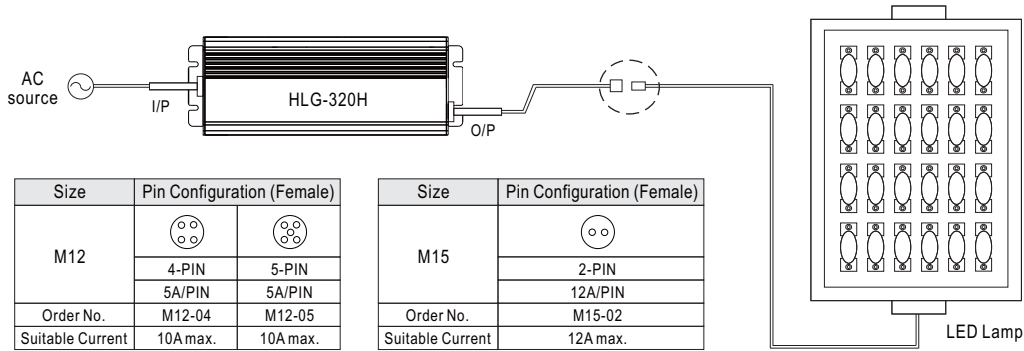


## Otros datos ofrecidos por Mean Well 3/3

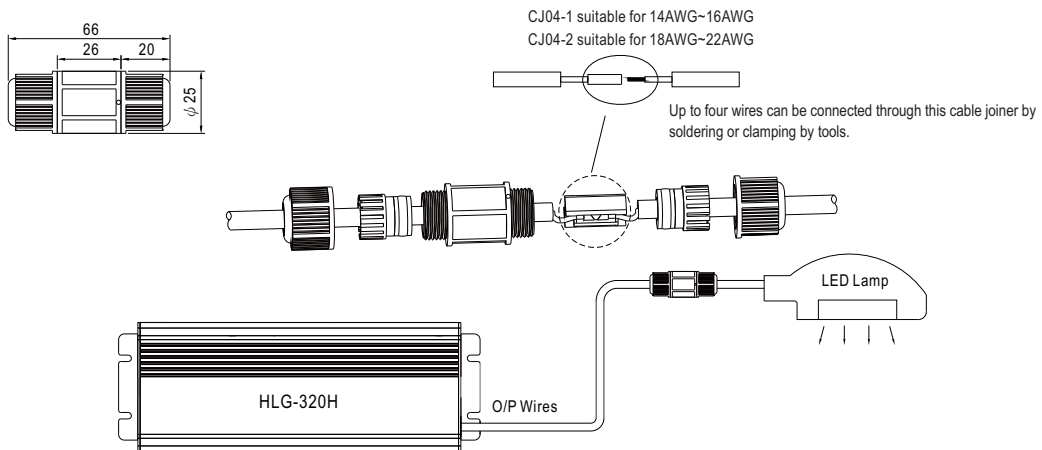
### ■ WATERPROOF CONNECTION

#### ※ Waterproof connector

Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.

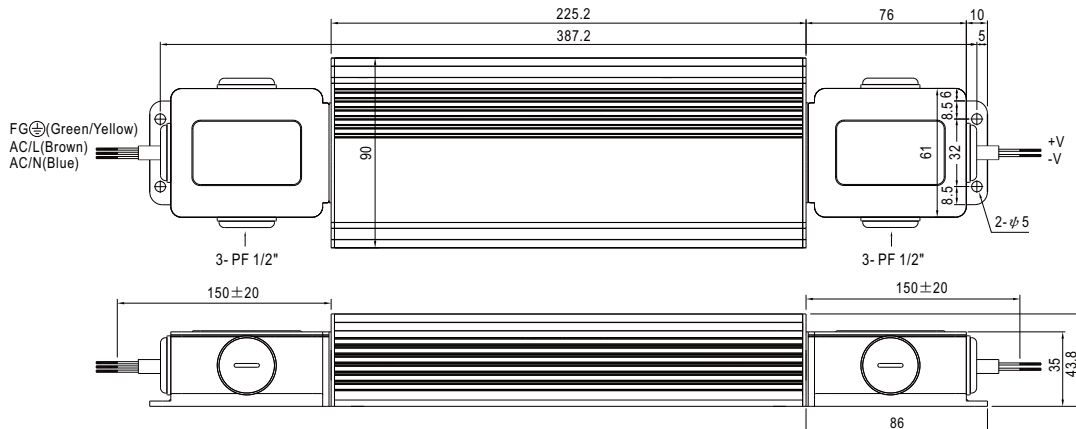


#### ※ Cable Joiner



© CJ04 cable joiner can be purchased independently for user's own assembly.  
MEAN WELL order No. : CJ04-1, CJ04-2.

#### ※ Junction Box Option



© Junction box option is available for A / Blank - Type. Please contact MEAN WELL for details.