



Наличие и актуальные цены на

**ELG-300-24A**

<https://www.mean-well.ru/store/ELG-300-24A/>



## Features

- Constant Voltage + Constant Current mode output
- Protection Functions: OCP,SCP,OVP,OTP
- IP67 rating for indoor or outdoor installations
- Output adjustable via potentiometer
- Typical lifetime>50000 hours
- 5 years warranty

## Applications

- LED bay lighting
- LED stage lighting
- LED flood lighting
- LED strip lighting
- DMX control system

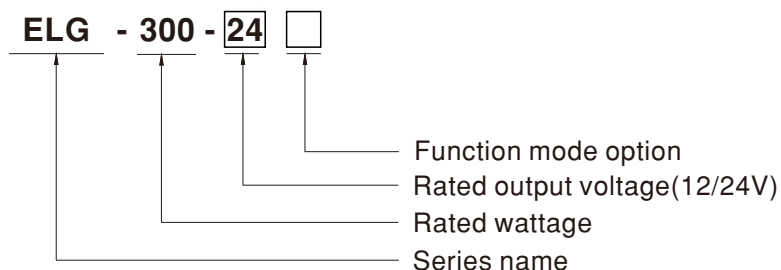
## GTIN CODE

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

## Description

ELG-300 series is a 300W LED driver featuring with constant current and Constant voltage mode design. ELG-300 operates from 100~305VAC and offers CV mode or CC mode applications. Thanks to the high efficiency up to 94%, with the fanless design, the ambient temperature can be operated for -40℃~+85℃ case temperature under free air convection. The design of metal housing and IP67 ingress protection level allows this series to fit both indoor and outdoor applications. Moreover the innovative environment-adaptive capability allows this series to reliably light on the LEDs for all kinds of application environments in almost any spots that may install LED luminaires in the world ,as to provide the optimal design flexibility for LED lighting system.

## Model Encoding

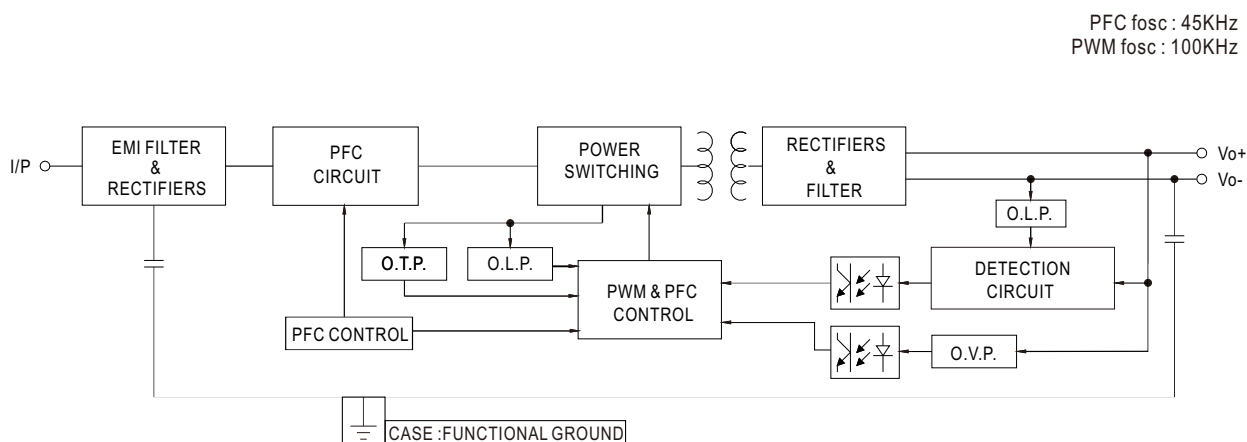


Type	IP Level	Function	Note
A	IP67	Io and Vo adjustable through built-in potentiometer	In Stock

# SPECIFICATION

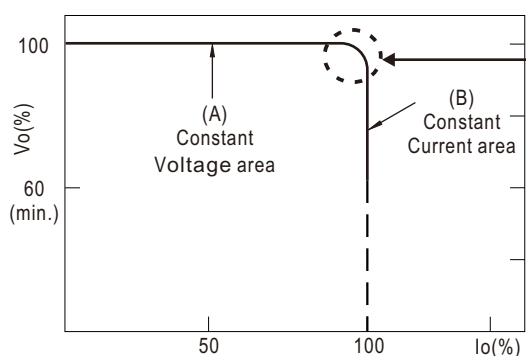
MODEL		ELG-300-12A		ELG-300-24A	
OUTPUT	DC VOLTAGE		12V		24V
	CONSTANT CURRENT REGION <small>Note.2</small>		10~ 12V		14.4~ 24V
	RATED CURRENT	200VAC ~ 305VAC	22A		12.5A
		100VAC ~ 180VAC	18.7A		10.63A
	RATED POWER	200VAC ~ 305VAC	264W		300W
		100VAC ~ 180VAC	224.4W		255W
	RIPPLE & NOISE (max.) <small>Note.3</small>		150mVp-p		240mVp-p
	VOLTAGE ADJ. RANGE		11.2 ~12.8V		22.4 ~25.6V
	CURRENT ADJ. RANGE		11 ~ 22A		6.25 ~ 12.5A
	VOLTAGE TOLERANCE <small>Note.4</small>		±3.0%		±2.0%
	LINE REGULATION		±0.5%		±0.5%
	LOAD REGULATION		±2.0%		±1.0%
SETUP, RISE TIME <small>Note.6</small>		500ms, 100ms/230VAC, 500ms, 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 ≥ 0.95/115VAC, PF ≥ 0.93/230VAC, PF ≥ 0.90/277VAC@full load			
	TOTAL HARMONIC DISTORTION	THD< 10%(@load≥50%/115VC,230VAC; @load≥75%/277VAC)			
	EFFICIENCY (Typ.)	91%		94%	
	AC CURRENT	3A / 115VAC 1.6A / 230VAC 1.3A/277VAC			
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=1200μs measured at 50% Ipeak) at 230VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	<0.75mA / 277VAC			
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	13.5 ~ 17V		27 ~ 34V	
	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 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+85℃			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 60℃)			
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL")(Except for 12V), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384; EAC TP TC 004; GB19510.1, GB19510.14; KC61347-1,KC61347-2-13; IS15885(Part2/Sec13),IP67 approved; Designed refer to AS/NZS 61347 & AS/NZS 60598			
	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 / 25℃ / 70% RH			
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN61000-3-3;GB/T 17743,GB17625.1;KN15			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV),KN61547			
OTHERS	MTBF	1827.7K hrs min. Telcordia SR-332 (Bellcore) ; 196.5Khrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	246*77*39.5mm (L*W*H)			
	PACKING	1.45 Kg; 9pcs /13.5Kg / 0.76CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ 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. (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> ) 8. This series meets the typical life expectancy >50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is 70℃ or less. 9. RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations. 10. Please refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a> 11.The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 12. 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. 13. 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> 14. This series need to consider build in using to comply with Type HL application. ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>				

### ■ Block Diagram



## ■ 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.

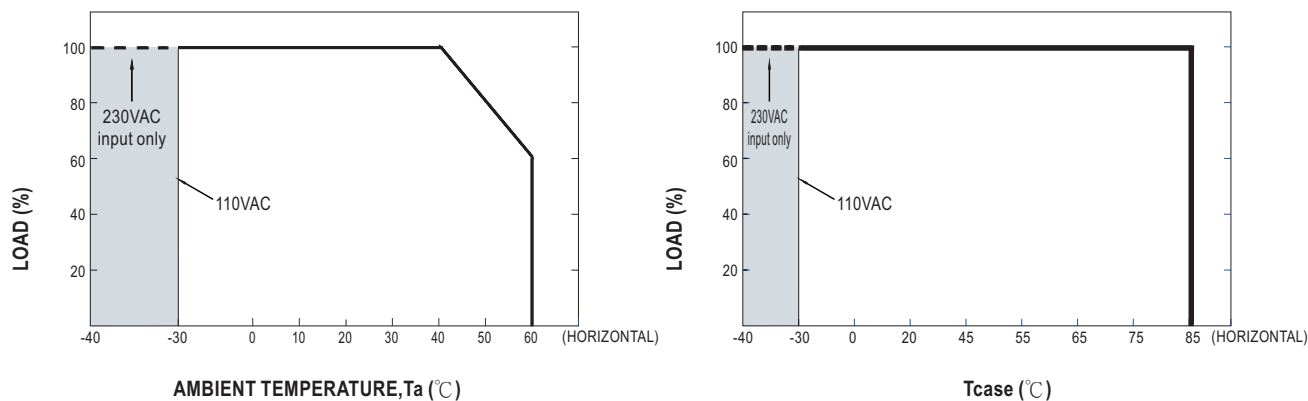


Typical output current normalized by rated current (%)

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

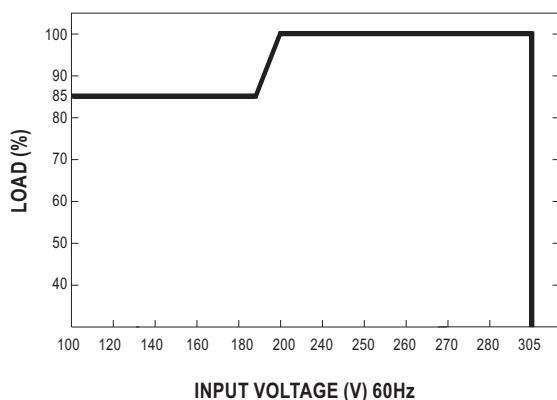
Should there be any compatibility issues, please contact MEAN WELL.

## OUTPUT LOAD vs TEMPERATURE



☉ If ELG-300 operates in Constant Current mode with the rated current, the maximum workable Ta is 40°C.

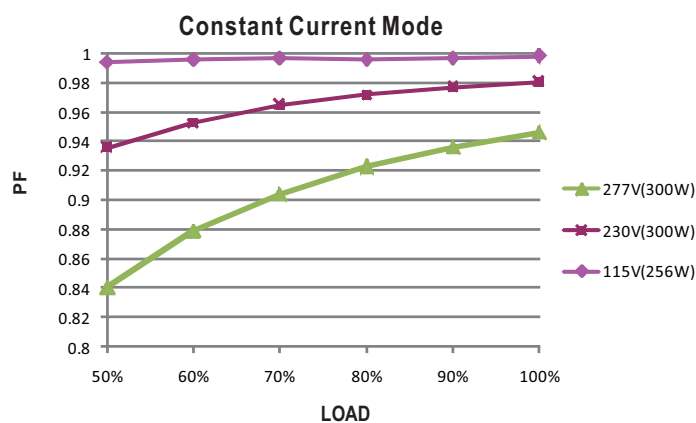
## STATIC CHARACTERISTIC



※ De-rating is needed under low input voltage.

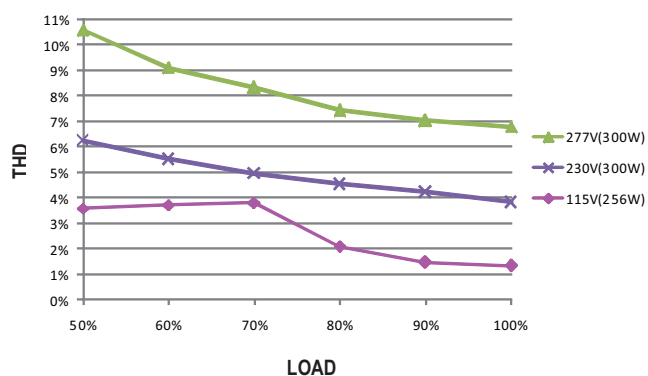
## POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°C



## TOTAL HARMONIC DISTORTION (THD)

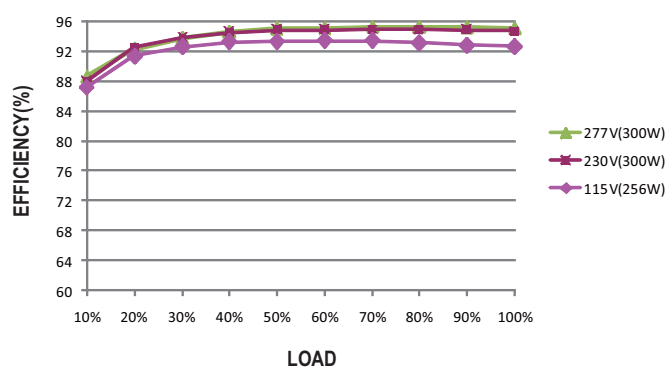
※ ELG-300-24A Model, Tcase at 75°C



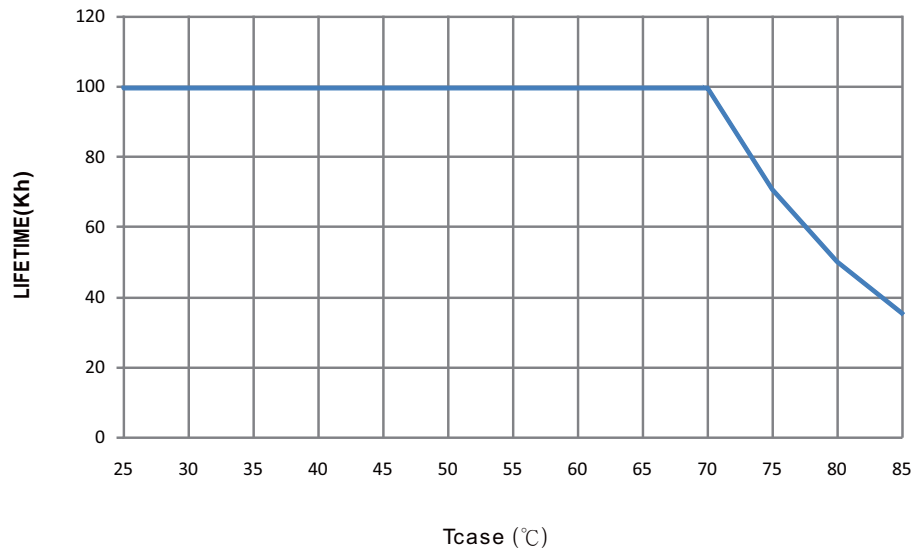
## EFFICIENCY vs LOAD

ELG-300 series possess superior working efficiency that up to 94% can be reached in field applications.

※ ELG-300-24A Model, Tcase at 75°C

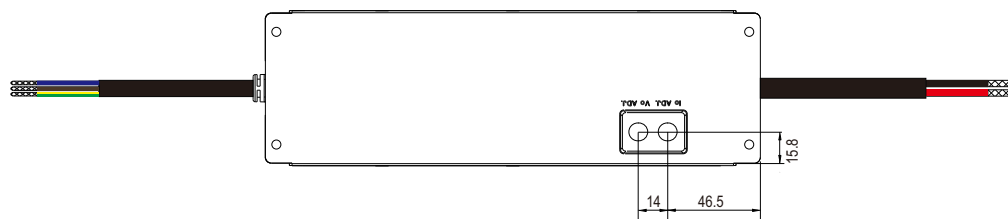
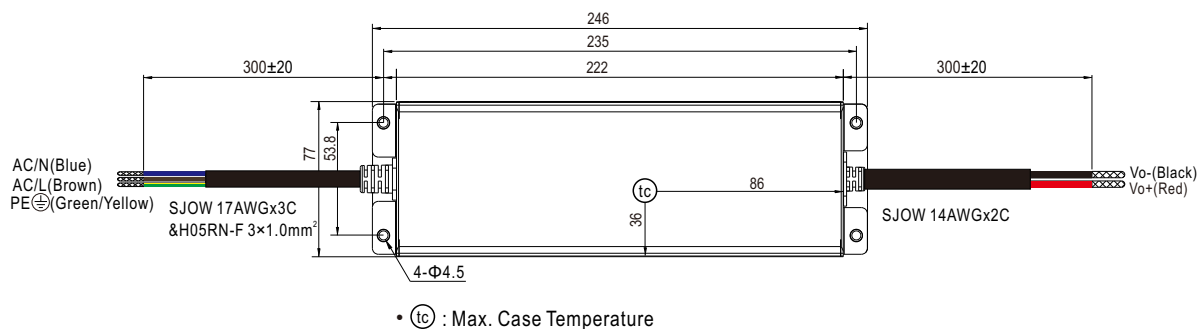


■ LIFE TIME

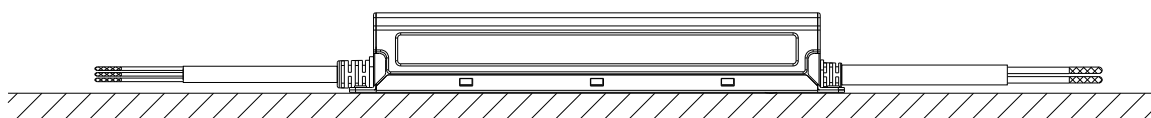


## MECHANICAL SPECIFICATION

CASE NO.: 266A Unit:mm Tolerance:±1



## Recommend Mounting Direction



## INSTALLATION MANUAL

Please refer to: <http://www.meanwell.com/manual.html>