



■ Features

- Constant Voltage + Constant Current mode output
- Built-in active PFC function
- IP67 rating for indoor or outdoor installations
- Output adjustable via potentiometer
- Typical lifetime > 50000 hours
- 5 years warranty

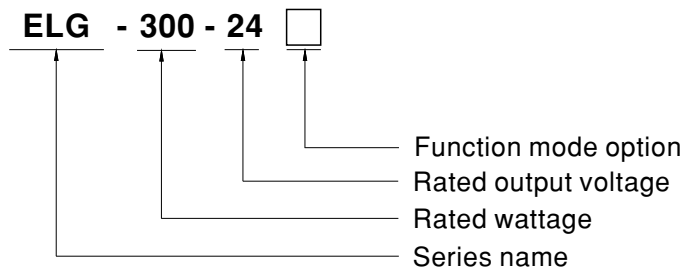
■ Applications

- LED bay lighting
- LED stage lighting
- LED spot lighting
- LED strip lighting

■ 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 driver current ranging between 6.25A to 12.5A for both CV mode or CC mode applications. Thanks to the high efficiency up to 93%, with the fanless design, the ambient temperature can be operated for -40°C~+85°C 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-300-24A	
OUTPUT	DC VOLTAGE	24V	
	CONSTANT CURRENT REGION <small>Note.2</small>	14.4~ 24V	
	RATED CURRENT	200VAC ~ 305VAC	12.5A
		100VAC ~ 180VAC	10.63A
	RATED POWER	200VAC ~ 305VAC	300W
		100VAC ~ 180VAC	255W
	RIPPLE & NOISE (max.) <small>Note.3</small>	240mVp-p	
	VOLTAGE ADJ. RANGE	22.4 ~25.6V	
	CURRENT ADJ. RANGE	6.25 ~ 12.5A	
	VOLTAGE TOLERANCE <small>Note.4</small>	±2.0%	
	LINE REGULATION	±0.5%	
	LOAD REGULATION	±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%/115VAC, 230VAC; @load ≥ 75%/277VAC)	
	EFFICIENCY (Typ.)	93%	
	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	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°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)	
	MAX. CASE TEMP.	Tcase=+85°C	
	WORKING HUMIDITY	20 ~ 95% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +80°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		
SAFETY & EMC	SAFETY STANDARDS	UL8750(type"HL"), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; EAC TP TC 004; GB19510.1, GB19510.14; IP67 approved	
	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°C / 70% RH	
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (@load ≥ 50%); EN61000-3-3;	
EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV)		
OTHERS	MTBF	609K hrs min. Telcordia SR-332 (Bellcore); 191Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION	246*77*39.5mm (L*W*H)	
	PACKING	1.45 Kg; 9pcs /14Kg / 0.76CUFT	
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. 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. This series meets the typical life expectancy >50,000 hours of operation when Tcase, particularly (Tc) point (or TMP, per DLC), is 70°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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). 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 		