





Features

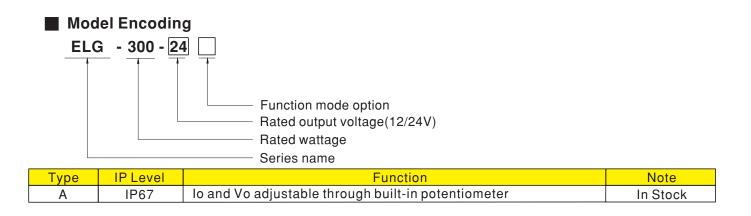
- Constant Voltage + Constant Current mode output
- Protection Functions: OCP, SCP, OVP, OTP
- · IP67 rating for indoor or outdoor installations
- · Output adjustable via potentiometer
- Typical lifetime>50000 hours
- 5 years warranty

Applications

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

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 $-40^{\circ}C + 85^{\circ}C$ 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.

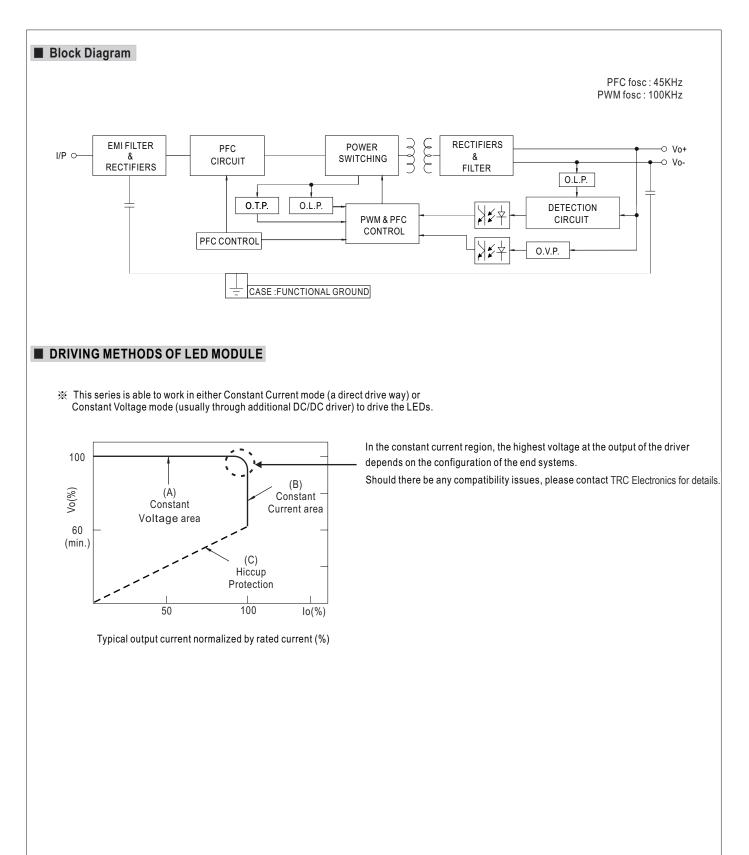




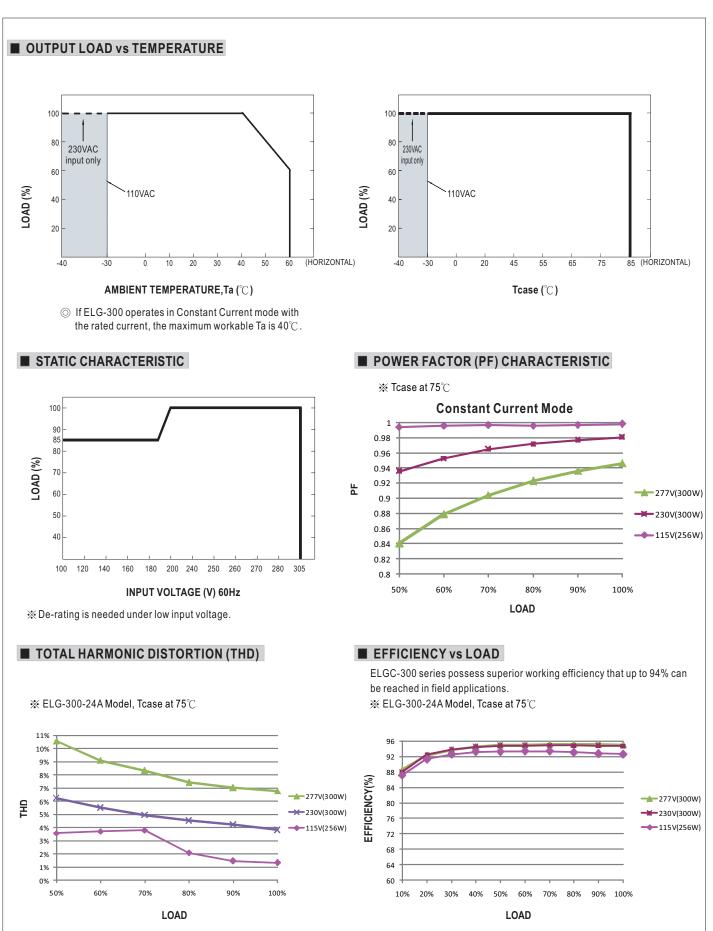
SPECIFICATION

MODEL			ELG-300-12A	ELG-300-24A	
DC VOLTAGE			12V	24V	
OUTPUT	CONSTANT CURR	ENT REGION Note.2	10~ 12V	14.4~ 24V	
	RATED	200VAC ~ 305VAC		12.5A	
	CURRENT	100VAC ~ 180VAC		10.63A	
	RATED POWER	200VAC ~ 305VAC		300W	
		100VAC ~ 180VAC		255W	
				240mVp-p	
	RIPPLE & NOISE (max.) Note.3				
	VOLTAGE ADJ. RANGE		11.2 ~12.8V	22.4~25.6V	
	CURRENT ADJ. RANGE		11 ~ 22A	6.25 ~ 12.5A	
	VOLTAGE TOLERANCE Note.4		±3.0%	±2.0%	
	LINE REGULATION		±0.5%	±0.5%	
	LOAD REGULATION		±2.0%	±1.0%	
	SETUP, RISE TIME Note.6		500ms, 100ms/230VAC, 500ms, 100ms/115VAC		
	HOLD UP TIME (Typ.)		10ms/ 230VAC 10ms/ 115VAC		
INPUT	VOLTAGE RANGE Note.5		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%/277V	/AC)	
	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		
			95~108%		
PROTECTION	OVER CURRENT		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°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.		Tcase=+85°C		
			20 ~ 95% RH non-condensing		
	WORKING HUMIDITY		· ·		
	STORAGE TEMP., HUMIDITY		-40 ~ +80°C , 10 ~ 95% RH		
	TEMP. COEFFICIENT		$\pm 0.03\%$ °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")(Except for 12V), CSA C22.2 No. 250.13-12; ENEC EN61347-1, EN61347-2-13 independent, EN62384; EAC TP TC 004; GB19510.1, GB19510.14; KC61347-1, KC61347-2-13; IS15885(Part2/Sec13), 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		
			Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 50%) ; EN61000-3-3;KN15		
			Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Earth 6KV, Line-Line 4KV),KN61547		
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 /13.5Kg / 0.76CUFT		
NOTE	 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 (c) point (or TMP, per DLC), is 70°C or less. Please refer to the warranty statement on MEAN WELL's website The duffil 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. For any application note and IP water proof function installation caution, please refer our user manual before using. 				

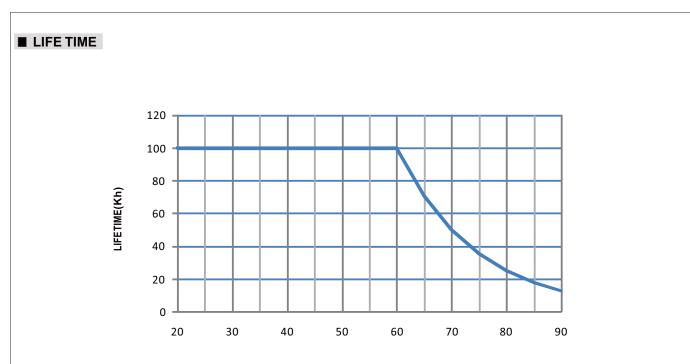












 $\textbf{Tcase} \ (^\circ\!\mathbb{C})$



