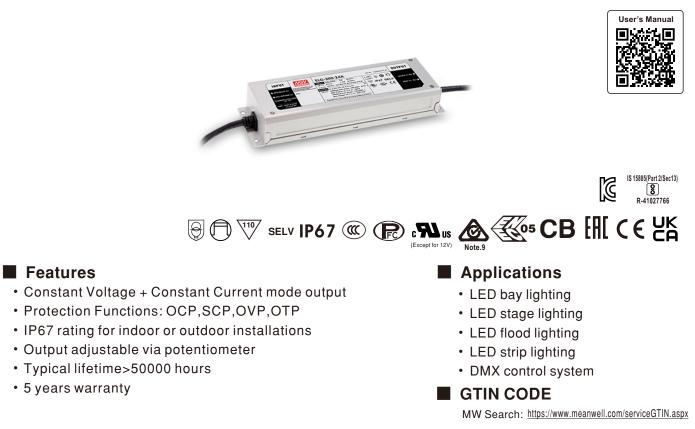
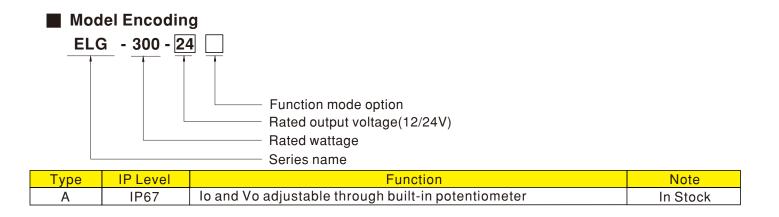


ELG-300



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

			ELG-300-12A	ELG-300-24A
-			12V	24V
	DC VOLTAGE			
OUTPUT	CONSTANT CURRENT REGION Note.2			14.4~ 24V
	RATED CURRENT	200VAC ~ 305VAC		12.5A
		100VAC ~ 180VAC		10.63A
	RATED POWER	200VAC ~ 305VAC		300W
	100VAC ~ 180VAC		224.4W	255W
	RIPPLE & NOISE (max.) Note.3		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 Note.4			±2.0%
			±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		$PF{\cong}0.95/115VAC,PF{\cong}0.93/230VAC,PF{\cong}0.90/277VAC{@}full load$	
	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% lpeak) at 230VAC; Per NEMA 410	
	MAX. No. of PSUs on 16A		2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC	
	CIRCUIT BREAKER		<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 13.5 ~ 17V 27 ~ 34V	
	OVER VOLTAGE		13.5 ~ 17V Shut down output voltage, re-power on to recover	27~34V
	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°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)	
Ī	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°C / 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) ; 196.5K hrs min. MIL-HDBK-217F (25° C)	
	DIMENSION		246*77*39.5mm (L*W*H)	
	PACKING		1.45 Kg; 9pcs /13.5Kg / 0.76CUFT	
	 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) This series meets the typical life expectancy >50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is 70°C or less. RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com The mabient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f 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. For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/LINICAD FILES/INTECHALES/INTECHALES/INTECHALES/INTECHALES/INTECHALES/INTECHALES/INTECHALES/INTECHALES/INTECHALES/			
	 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(65) To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected the mains. 			

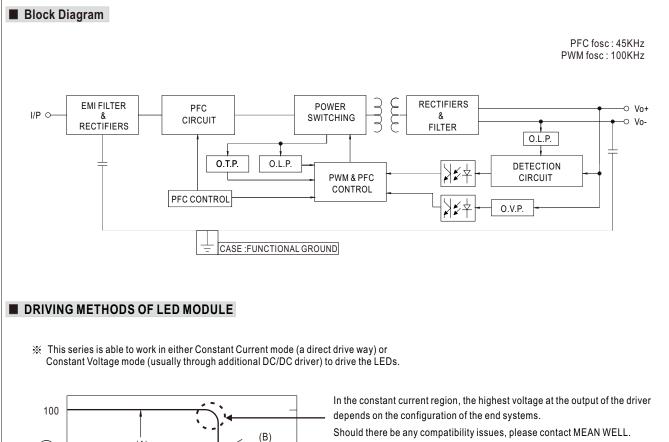


Vo(%)

60 (min.)

Constant Current area

lo(%)



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

Typical output current normalized by rated current (%)

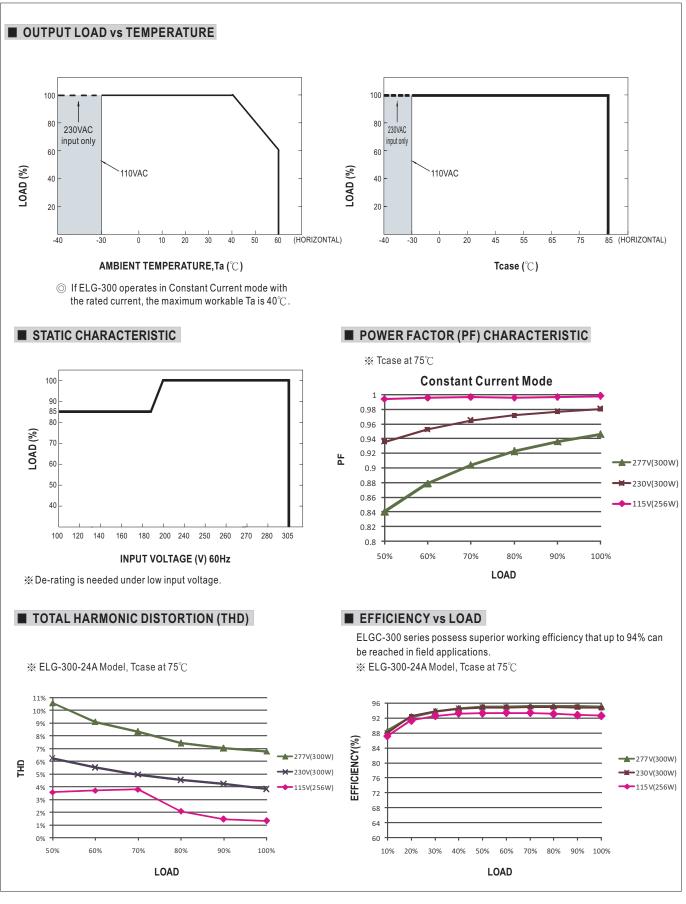
(C) Hiccup Protection 100

(A) Constant

Voltage area

50





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