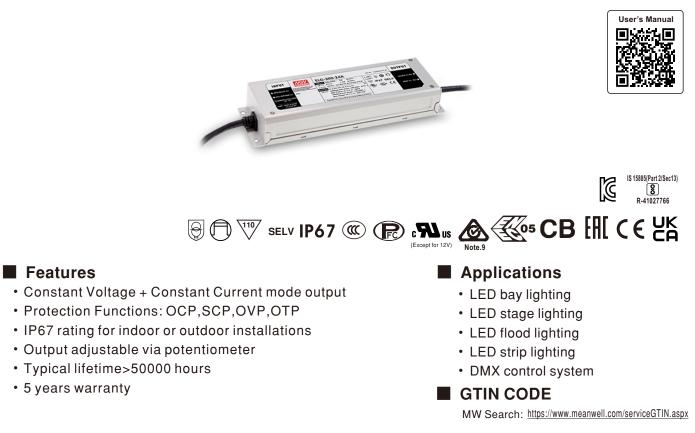
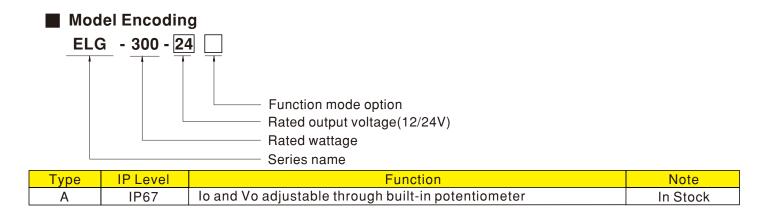


ELG-300



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.



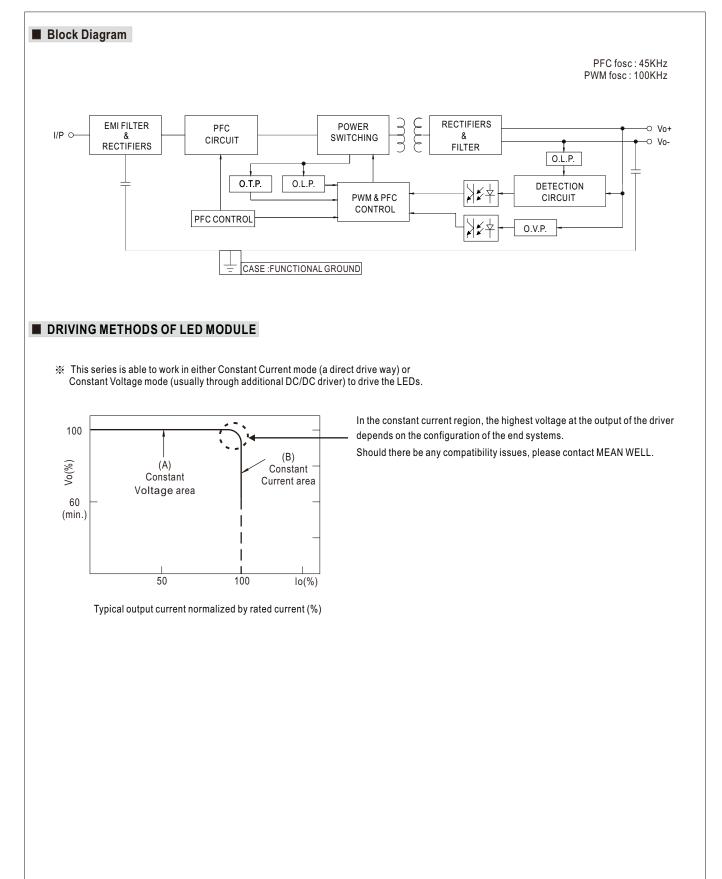


SPECIFICATION

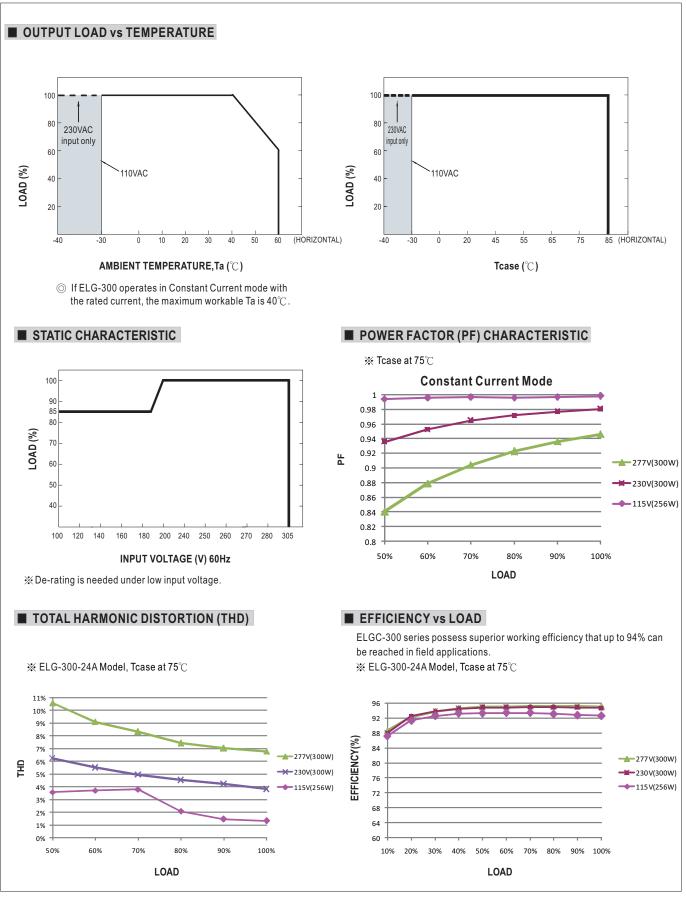
MODEL		ELG-300-12A	ELG-300-24A	
DC VOLTAGE		12V	24V	
		10~ 12V	14.4~ 24V	
			12.5A	
CURRENT			10.63A	
RATED POWER			300W	
			255W	
RIPPLE & NOISE (max.) Note.3			240mVp-p	
OUTPUT VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.4 LINE REGULATION		11.2 ~12.8V	22.4 ~25.6V	
		11 ~ 22A	6.25 ~ 12.5A	
		±3.0%	±2.0%	
		±0.5%	±0.5%	
LOAD REGUL	ATION	±2.0%	±1.0%	
SETUP, RISE TIME Note.6		500ms, 100ms/230VAC, 500ms, 100ms/115VAC		
		10ms/ 230VAC 10ms/ 115VAC		
	- (190.)			
VOLTAGE RAN		(Please refer to "STATIC CHARACTERISTIC" section)		
FREQUENCY				
INPUT POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT				
		THD<10%(@load≥50%/115VC,230VAC; @load≥75%/277VAC)		
			94%	
		3A/115VAC 1.6A/230VAC 1.3A/277VAC		
		COLD START 45A(twidth=1200µs measured at 50% Ipeak) at 230VAC; Per NEMA 410		
		2 units (circuit breaker of type B) / 4 units (circuit breaker of type C) at 230VAC		
		<0.75mA / 277VAC		
PROTECTION OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER VOLTAGE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY ENVIRONMENT STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT WURDATION		Constant current limiting, recovers automatically after fault condition is removed		
		Constant current limiting, recovers automatically after fault condition is removed		
		5		
		Shut down output voltage, re-power on to recover		
		Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)		
		Tcase=+85℃		
VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for /2min. e	ach along X, Y, Z axes	
SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF		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		
		I/P-O/P:3.75KVAC I/P-FG:2.0KVAC O/P-FG:1.5KVAC		
		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH		
		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		
		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		
		1827.7K hrs min. Telcordia SR-332 (Bellcore); 196.5Khrs min. MIL-HDBK-217F (25°C)		
OTHERS DIMENSION		246*77*39.5mm (L*W*H)		
PACKING		1.45 Kg; 9pcs /13.5Kg / 0.76CUFT		
 Please refer Ripple & noi Tolerance : De-rating ma Length of se The driver is complete ins (as available This series r RCM is on a 	to "DRIVING M se are measure ncludes set up t ay be needed ur it up time is mea considered as stallation, the fina on https://www. meets the typica a voluntary basis	ETHODS OF LED MODULE". d at 20MHz of bandwidth by using a 12" twisted pro- olerance, line regulation and load regulation. nder low input voltages. Please refer to "STATIC C sured at first cold start. Turning ON/OFF the drive a component that will be operated in combination val equipment manufacturers must re-qualify EMC I meanwell.com//Upload/PDF/EMI_statement_en.pd life expectancy >50,000 hours of operation when . Non IC classification Independent LED control ge y statement on MEAN WELL's website at http://www.	air-wire terminated with a 0.1uf & 47uf parallel capacitor. HARACTERISTIC" sections for details. r may lead to increase of the set up time. with final equipment. Since EMC performance will be affected by the Directive on the complete installation again. f) Tcase, particularly (tc) point (or TMP, per DLC), is 70°C or less. ear is not suitable for residential installations.	
-	CONSTANT CURR RATED CURRENT RATED POWER RIPPLE & NOIS VOLTAGE ADJ CURRENT ADJ VOLTAGE ADJ CURRENT ADJ VOLTAGE ADJ CURRENT ADJ VOLTAGE ADJ SETUP, RISE T HOLD UP TIME VOLTAGE RAN FREQUENCY F POWER FACTO TOTAL HARMONI EFFICIENCY (1 AC CURRENT INRUSH CURR MAX. No. of PS CIRCUIT BREA LEAKAGE CUP OVER CURREN SHORT CIRCU OVER CURREN SHORT CIRCU OVER VOLTAG OVER TEMPER WORKING TEM MAX. CASE TE WORKING HUI STORAGE TEM TEMP. COEFFI VIBRATION SAFETY STAN WITHSTAND V ISOLATION RE EMC IMMUNIT MTBF DIMENSION PACKING 1. All paramete 2. Please refer 3. Ripple & noi 4. Tolerance 1 5. De-rate 1 5. DE-	CONSTANT CURRENT REGION Note.2 RATED CURRENT 200VAC ~ 305VAC ATED POWER 200VAC ~ 305VAC RATED POWER 200VAC ~ 305VAC RIPPLE & NOISE (max.) Note.3 VOLTAGE ADJ. RANGE CURRENT ADJ. RANGE CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT OVER CURRENT OVER CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP.HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT speciall 2. Please refer to "DRIVING M 3. Ripple & noise are measure 4. Tolerance : includes set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The driver is considered as is compared in the set up time is meas 7. The d	DC VOLTAGE 12V CONSTANT CURRENT REGION Note2 10-12V RATED 200VAC - 305VAC 22A CURRENT 200VAC - 305VAC 22A RATED POWER 200VAC - 305VAC 22A MARED POWER 200VAC - 180VAC 18.7A RATED POWER 200VAC - 305VAC 224 4W RIPLE & NOISE (max). Note.3 150mV-p VOLTAGE ADJ. RANGE 11.2 - 12.8V CURRENT ADJ. RANGE 11.2 - 22.8V CURRENT ADJ. RANGE 11.2 - 12.8V CURRENT ADJ. RANGE 11.2 - 21.8V CURRENT ADJ. RANGE 11.2 - 22.0% SETUP, RISE TIME Note.6 500ms, 100ms/230VAC, 500ms, 100ms/115VAC HOLD UP TIME (Typ.) 100ms/230VAC 10ms/115VAC VOLTAGE RANGE Note.5 100 ~ 305VAC 142 ~ 431VDC YOLTAGE RANGE FREQUENCY RANGE Note.5 100 ~ 305VAC 142 ~ 431VDC YOLTAGE RANGE FREQUENCY RANGE Note.5 100 ~ 305VAC 142 ~ 431VDC YOLTAGE RANGE FREQUENCY RANGE Note.5 100 ~ 305VAC 142 ~ 431VDC YOLTAGE RANGE YOLTAGE 70 PT ≥ 0.93/230VAC, PF ≥ 0.90/27 TOTAL HARMONIC DISTORTION THD <	

% Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx









File Name:ELG-300-SPEC 2024-10-16



LIFE TIME

