

LPF-25-24 UL/cUL Listed LED Driver



25W CONSTANT VOLTAGE + CONSTANT CURRENT LED DRIVER LPF-25-24

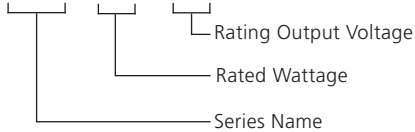
LPF-25-24 is a 25W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-25-24 operates from 90~305VAC. Thanks to high efficiency up to 90%, with the fanless design, this driver is able to operate for -40°C ~ +80°C case temperature under free air convection.

FEATURES

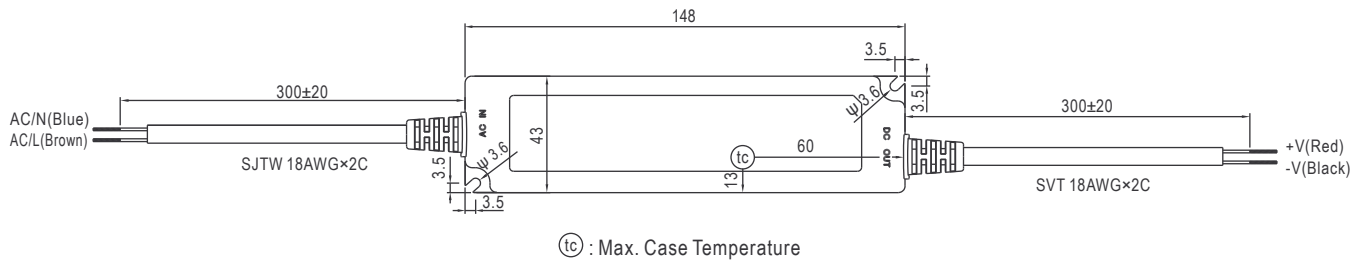
- Voltage + Constant Current mode output
- Plastic housing with Class II design
- Built-in active PFC function
- Class 2 power unit
- Fully encapsulated with IP67 level
- Typical lifetime > 50000 hours
- 5 years warranty
- Dimmable with optional Feelux FDC-L10, 0-10v dimming interface

MODEL SELECTION KEY

LPF - 25 - 24



MECHANICAL SPECIFICATION



Feelux recommends using the D12P-HUB (order separately) connected to the output +V (red) + -V (black) of the LPF-25-24 driver.



SPECIFICATIONS

OUTPUT 24VDC	SETUP, RISE TIME <small>Note.6</small>	1500ms, 80ms / 115VAC	500ms, 80ms / 230VAC	
	HOLD UP TIME (Typ.)	16ms/230VAC	16ms/230VAC	
INPUT	VOLTAGE RANGE <small>Note.5</small>	90 ~ 305VAC	127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)	
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR	PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF ≥ 0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	TOTAL HARMONIC DISTORTION	THD< 20% (@load ≥ 60%/115VAC, 230VAC; @load ≥ 75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION (THD)" section)		
	EFFICIENCY (Typ.)	86%		
	AC CURRENT	0.6A / 115VAC	0.3A / 230VAC	0.25A/277VAC
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=210µs measured at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC		
	LEAKAGE CURRENT	<0.75mA / 240VAC		
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed		
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	28 ~ 35V Shut down and latch off o/p voltage, re-power on to recover		
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover		
ENVIRONMENT	WORKING TEMP.	Tcase=-35 ~ +80°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=+70°C		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes		
	SAFETY STANDARDS <small>Note.8</small>	UL8750, CSA C22.2 No. 250.0-08(except for 48V, 54V), ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP67, J61347-1, J61347-2-13 approved ; design refer to UL60950-1, TUV EN60950-1		
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH		
	EMC EMISSION <small>Note.8</small>	Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 60%) ; EN61000-3-3		
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV)		
OTHERS	MTBF	438.8Khrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	162.5*43*32mm (L*W*H)		
	PACKING	0.36Kg; 40pcs/15.4Kg/1.02CUFT		

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C 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.
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. 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.
8. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), is about 75°C or less.
9. Please refer to the warranty statement on MEAN WELL's website at <http://www.meanwell.com>