



Features

- · Constant Voltage + Constant Current mode output
- Plastic housing with Class II design
- · Built-in active PFC function
- IP67 rating for indoor or outdoor installations
- Class 2 power unit
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- LED panel lighting
- · LED flood lighting
- Indoor LED lighting
- High bay lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location

Description

LPFH-60 series is a 60W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPFH-60 operates from 200 \sim 400VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -40°C ~ +90°C case temperature under free air convection. The entire series is rated with IP67 ingress protection level and is suitable to work for a variety of applications at dry or damp locations.





LPFH-60 series

SPECIFICATION

MODEL		LPFH-60-12	LPFH-60-15	LPFH-60-24	LPFH-60-36	LPFH-60-42	LPFH-60-48	LPFH-60-5
OUTPUT	DC VOLTAGE	12V	15V	24V	36V	42V	48V	54V
	CONSTANT CURRENT REGION Note.2	7.2~12V	9~15V	14.4 ~ 24V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V
	RATED CURRENT	5A	4A	2.5A	1.67A	1.43A	1.25A	1.12A
	RATED POWER Note.5	60W	60W	60W	60.12W	60.06W	60W	60.48W
	RIPPLE & NOISE (max.) Note.3	150mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE TOLERANCE Note.4	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.6	500ms, 100ms / 347VAC 700ms, 100ms / 230VAC,277VAC						
	HOLD UP TIME (Typ.)	10ms/230VAC,277VAC 10ms/347VAC						
	VOLTAGE RANGE Note.5	200 ~ 400VAC 282 ~ 565VDC (Please refer to "STATIC CHARACTERISTIC" section)						
INPUT	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≧0.95/230VAC, 277VAC, PF≧0.92/347VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/230VC,277VAC; @load≧75%/347VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
	EFFICIENCY (Typ.)	86%	87%	89%	90%	90%	90%	90%
	AC CURRENT (Typ.)	0.4A/230VAC,	277VAC 0.3	32A / 347VAC				
	INRUSH CURRENT (Typ.)	COLD START 40A(twidth=550µs measured at 50% Ipeak) at 347VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	7 units (circuit breaker of type B) / 12 units (circuit breaker of type C) at 347VAC						
	LEAKAGE CURRENT	<0.75mA/347VAC						
PROTECTION		95 ~ 108%						
	OVER CURRENT	Hiccup mode, recovers automatically after fault condition is removed						
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.						
	OVER VOLTAGE	15 ~ 17V	17.5 ~ 21V	28~35V	41~49V	46 ~ 54V	54 ~ 63V	59~66V
		Shut down o/p	voltage, auto-rec	overv or re-powe	er on to recoverv			
	OVER TEMPERATURE	Shut down o/p voltage, auto-recovery or re-power on to recovery						
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+90°C						
		20 ~ 95% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +90°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes						
	SAFETY STANDARDS							
SAFETY & EMC		UL8750(type"HL"), CSA C22.2 No. 250.0-08, EAC TP TC 004, IP67 approved						
	WITHSTAND VOLTAGE							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH						
		Compliance to FCC part 15 class B (@load ≥60%),EAC TP TC 020						
		Compliance to IEC61000-4-2,4,5; light industry level (surge immunity : Line-Line:2KV),EAC TP TC 020						
OTHERS	MTBF	1267.7K hrs min. Telcordia SR-332 (Bellcore); 343.9Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	162.5*43*32mm (L*W*H)						
	PACKING 1 All parameters NOT special	0.45Kg; 32pcs/15.4Kg/0.93CUFT						
NOTE	 Please refer to "DRIVING M Ripple & noise are measured Tolerance : includes set up to Length of set up time is me The driver is considered as complete installation, the fin This series meets the typica Please refer to the warranty 	Illy mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. METHODS OF LED MODULE". d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. assured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. a component that will be operated in combination with final equipment. Since EMC performance will be affected by the al equipment manufacturers must re-qualify EMC Directive on the complete installation again. al life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less. y statement on MEAN WELL's website at http://www.meanwell.com						

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



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LIFE TIME





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