



Features

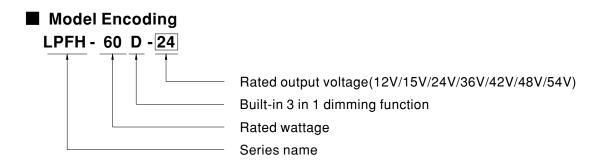
- Constant Current mode output
- · Plastic housing with Class II design
- Built-in active PFC function
- · IP67 rating for indoor or outdoor installations
- Class 2 power unit
- Function: 3 in 1 dimming
- Typical lifetime>50000 hours
- 5 years warranty

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-60D series is a 60W AC/DC LED driver featuring the constant current output. LPFH-60D operates from $200 \sim 400$ VAC 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 $\rightarrow +90^{\circ}$ 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-60D is equipped with the 3 in 1 dimming function so as to provide the optimal design flexibility for LED lighting system.





SPECIFICATION

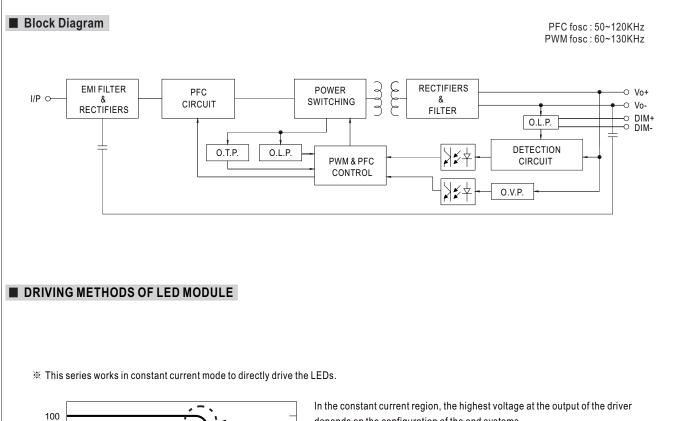
MODEL		LPFH-60D-12	LPFH-60D-15	LPFH-60D-24	LPFH-60D-36	LPFH-60D-42	LPFH-60D-48	LPFH-60D-54
	DC VOLTAGE	12V	15V	24V	36V	42V	48V	54V
ουτρυτ	RATED CURRENT	5A	4A	2.5A	1.67A	1.43A	1.25A	1.12A
	RATED POWER Note.5	60W	60W	60W	60.12W	60.06W	60W	60.48W
	CONSTANT CURRENT REGION Note.2	7.2 ~12V	9~15V	14.4 ~ 24V	21.6 ~ 36V	25.2 ~ 42V	28.8~48V	32.4 ~ 54V
	CURRENT RIPPLE	5.0% max. @rated current						
	CURRENT TOLERANCE	±5.0%						
	SETUP TIME Note.6	700ms / 230VAC,277VAC; 500ms / 347VAC						
	VOLTAGE RANGE	200 ~ 400VAC 282 ~ 565VDC (Please refer to "STATIC CHARACTERISTIC" section)						
INPUT	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	$\label{eq:PF} PF \geq 0.95/230 \text{VAC}, 277 \text{VAC}, PF \geq 0.92/347 \text{VAC} @ \text{full load} \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) \\ \end{array}$						
	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 0.32A / 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	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-recovery or re-power on to recovery						
	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						
	WORKING HUMIDITY	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	UL8750(type"HL"), CSA C22.2 No. 250.0-08, EAC TP TC 004, IP67 approved						
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH						
	EMC EMISSION	Compliance to FCC part 15 Subpart B ($@$ load \geq 60%),EAC TP TC 020						
	EMC IMMUNITY	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	0.45Kg; 32pcs / 15.4Kg / 0.93CUFT						
NOTE	 All parameters NOT specia Please refer to "DRIVING N Ripple & noise are measure Tolerance : includes set up t Length of set up time is me The driver is considered as complete installation, the fir 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". METHODS OF LED MODULE". tolerance, line regulation and load regulation. easured 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 nal equipment manufacturers must re-qualify EMC Directive on the complete installation again. al life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70°C or less. y statement on MEAN WELL's website at http://www.meanwell.com r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						

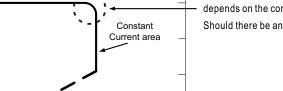
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Vo(%) 60 (min.)

LPFH-60D series





lo (%)

Hiccup Protection

100

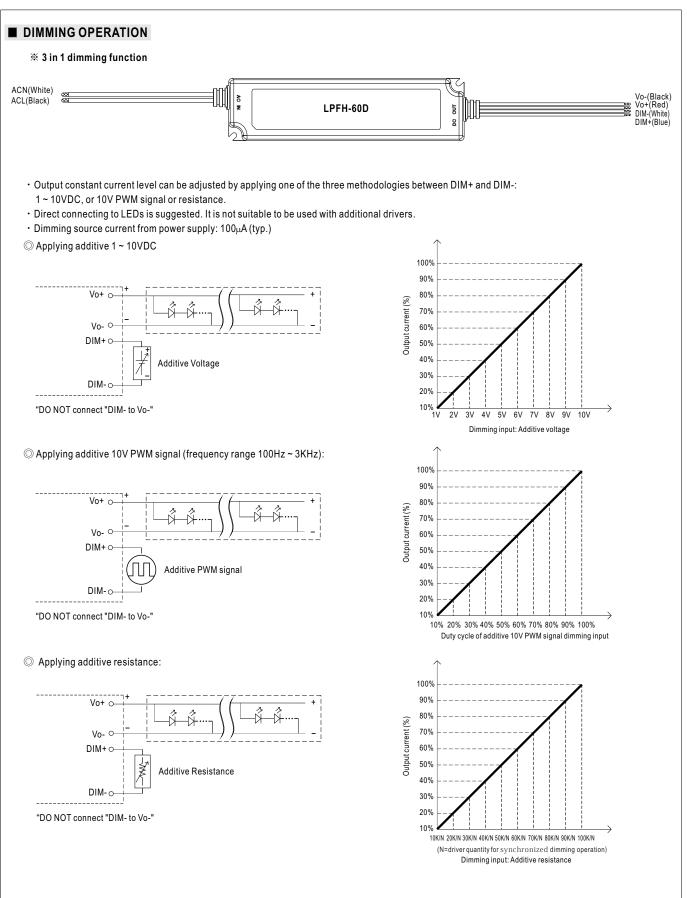
depends on the configuration of the end systems.

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

Typical LED power supply I-V curve

50



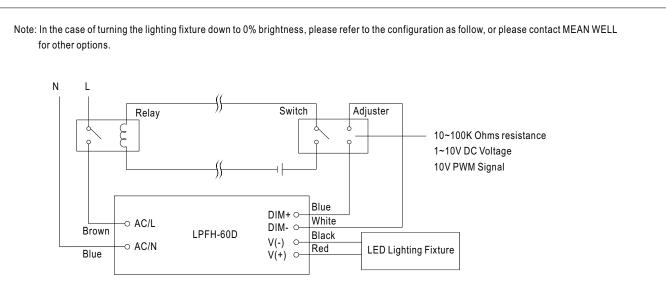


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60W Constant Current LED Driver

LPFH-60D series

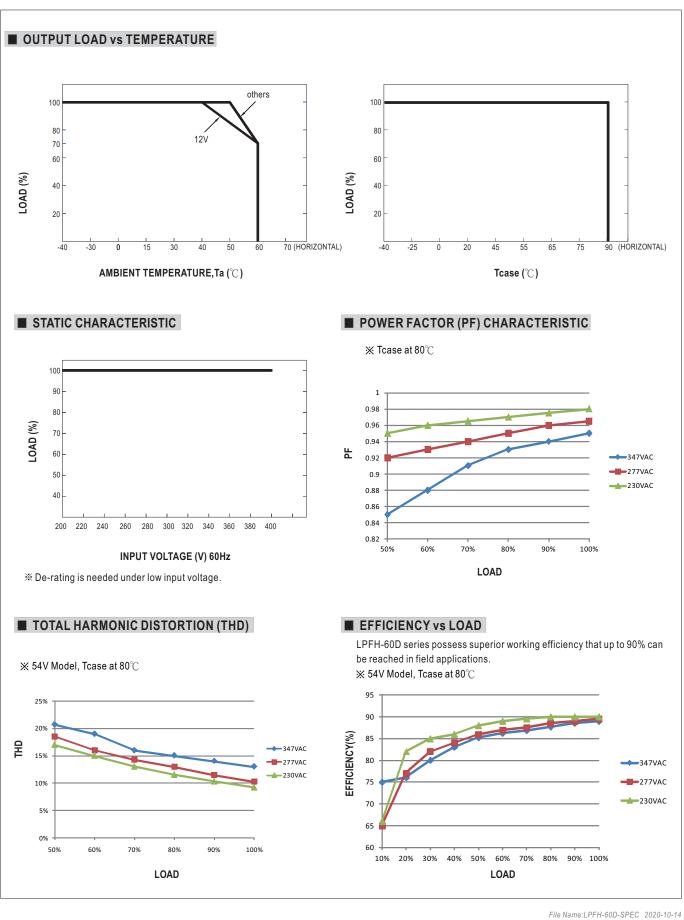


Using a switch and relay can turn ON/OFF the lighting fixture.

1. Output constant current level can be adjusted through output cable by connecting a resistor or 1~10Vdc or 10V PWM signal between DIM+ and DIM-.

 $\ensuremath{\text{2.The LED}}$ lighting fixture can be turned ON/OFF by the switch.







LIFE TIME

LIFETIME(Kh)

