









Features

- Constant 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

Applications

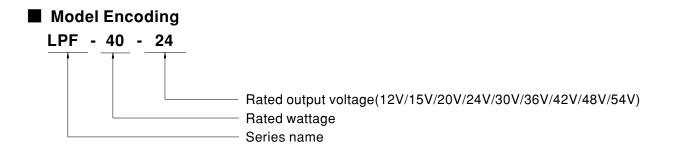
- LED panel lighting
- LED downlight
- LED decorative lighting
- LED tunnel lighting
- Moving sign

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LPF-40 series is a 40W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-40 operates from $90 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the hign efficiency up to 90%, with the fanless design, the entire series is able to operate for -40° C $\sim +80^{\circ}$ 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, damp or wet locations.





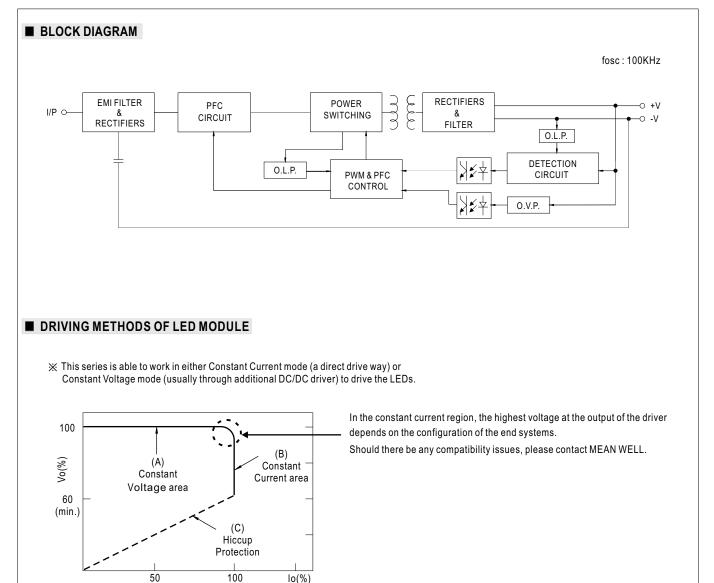
40W Constant Voltage + Constant Current LED Driver

LPF-40 series

SPECIFICATION

MODEL		LPF-40-12	LPF-40-15	LPF-40-20	LPF-40-24	LPF-40-30	LPF-40-36	LPF-40-42	LPF-40-48	LPF-40-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	CONSTANT CURRENT REGION Note.2	7.2 ~12V	9~15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8~48V	32.4 ~ 54V	
	RATED CURRENT	3.34A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.76A	
	RATED POWER Note.5	40.08W	40.08W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	41.04W	
	RIPPLE & NOISE (max.) Note.3	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-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%	±4.0%	
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
						10.070	10.070	10.070	10.070	10.070	
	SETUP, RISE TIME Note.6	1000ms, 80ms / 115VAC 500ms, 80ms / 230VAC 16ms/230VAC 16ms/115VAC									
INPUT	HOLD UP TIME (Typ.)	90 ~ 305VAC 127 ~ 431VDC									
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR	$\label{eq:PF} PF \ge 0.97/115 \text{VAC}, PF \ge 0.95/230 \text{VAC}, PF \ge 0.92/277 \text{VAC} @ full load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) \\ \end{array}$									
	TOTAL HARMONIC DISTORTION		@load≧60%/11 r to "TOTAL HA			,					
	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	88.5%	90%	90%	
	AC CURRENT	0.6A / 115VA	C 0.3A/2	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/24	10VAC								
		95~108%									
	OVER CURRENT		rent limiting reg	covers automat	ically after fault	condition is rer	moved				
	SHORT CIRCUIT		, recovers auto				noveu				
	SHOKT CIRCUIT	15~17V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46~54V	54 ~ 63V	59~66V	
	OVER VOLTAGE	-					41 430	40 - 34 0	J4 * 0J V	33 000	
	OVER TEMPERATURE		nd latch off o/p /p voltage, re-			/er					
				•) (
ENVIRONMENT	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.	Tcase=+80°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)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS Note.8	UL8750, CSA C22.2 No. 250.0-08, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, EAC TP TC 004, IP67 J61347-1, J61347-2-13, GB19510.1, GB19510.14 approved ; design refer to UL60950-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION Note.8	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load \geq 60%) ; BS EN/EN61000-3-3, GB/T 17743 , GB17625.1,EAC TP TC 020									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Line 2KV), EAC TP TC 020									
OTHERS	MTBF	3597.9K hrs	min. Telcord	lia SR-332 (Be	llcore); 438	.9Khrs min.	MIL-HDBK-21	7F (25℃)			
	DIMENSION	162.5*43*32	mm (L*W*H)								
	PACKING	0.44Kg; 32pc	cs/15.08Kg/0.9	3CUFT							
NOTE	 All parameters NOT specially Please refer to "DRIVING M Ripple & noise are measured Tolerance : includes set up to De-rating may be needed ur Length of set up time is meas The driver is considered as a complete installation, the fina (as available on https://www To fulfill requirements of the without permanently connect This series meets the typical 	ETHODS OF at 20MHz of the lerance, line re- nder low input asured at first a component in al equipment r .meanwell.com latest ErP reg ted to the mai	LED MODULf bandwidth by u egulation and lo voltages. Plea cold start. Turr that will be ope manufacturers n//Upload/PDF ulation for light ns. cy of >50,000	E". sing a 12" twis bad regulation. use refer to "ST ning ON/OFF t erated in comb must re-qualifi /EMI_stateme ting fixtures, th	ted pair-wire te IATIC CHARA he driver may pination with fir y EMC Directiv nt_en.pdf) is LED driver	erminated with a CTERISTIC" s lead to increas nal equipment. ye on the comp can only be us	a 0.1uf & 47uf p sections for det se of the set up Since EMC pe olete installatio	parallel capacito ails. 5 time. Aformance will n again. vitch	be affected by		

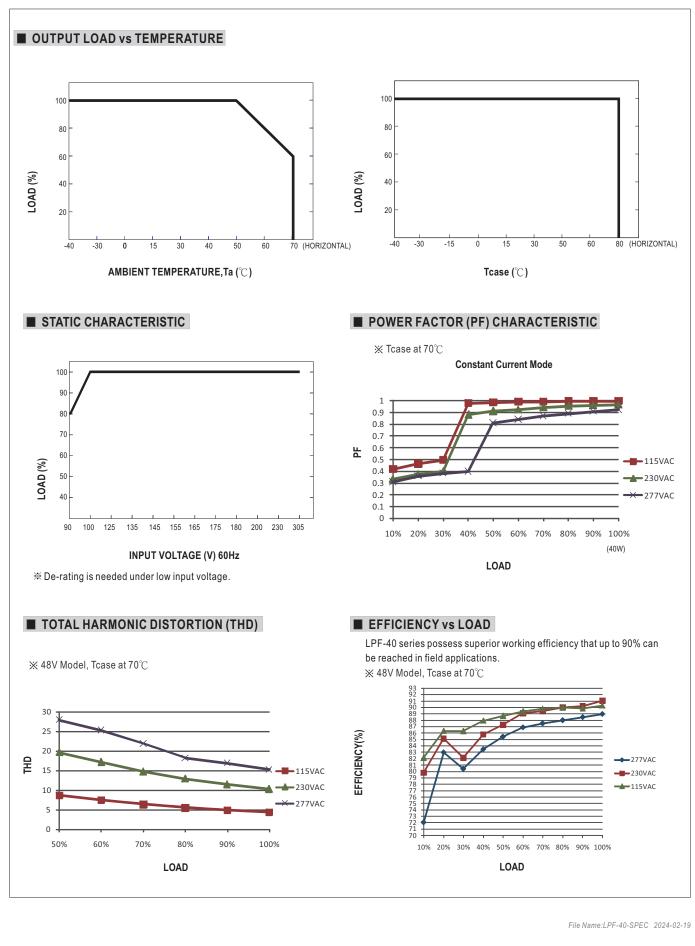




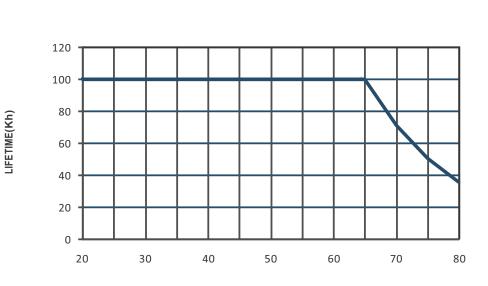
Typical output current normalized by rated current (%)

File Name:LPF-40-SPEC 2024-02-19









Tcase (°C)



