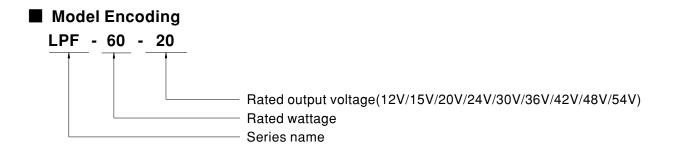




Description

LPF-60 series is a 60W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-60 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 $\sim +80$ °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.





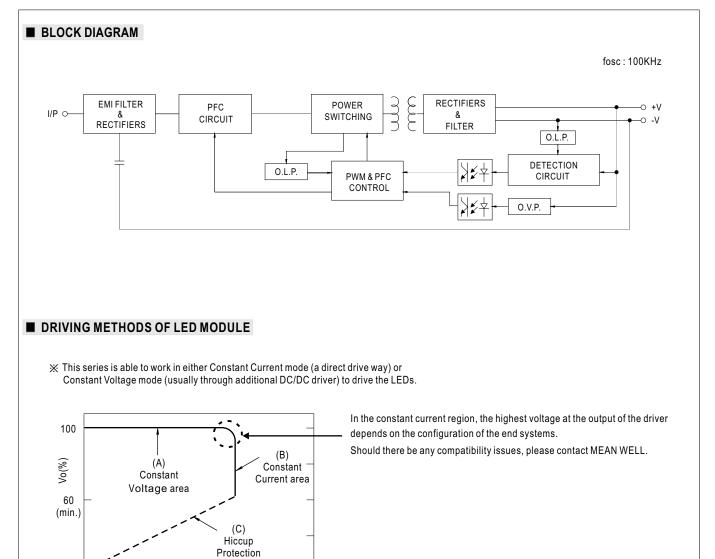
60W Constant Voltage + Constant Current LED Driver

LPF-60 series

SPECIFICATION

	ATION									
MODEL		LPF-60-12	LPF-60-15	LPF-60-20	LPF-60-24	LPF-60-30	LPF-60-36	LPF-60-42	LPF-60-48	LPF-60-54
	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	5A	4A	3A	2.5A	2A	1.67A	1.43A	1.25A	1.12A
	RATED POWER Note.5	60W	60W	60W	60W	60W	60.12W	60.06W	60W	60.48W
	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%	±4.0%
	LINE REGULATION	±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%
	SETUP, RISE TIME Note.6	1000ms, 80ms / 115VAC 500ms, 80ms / 230VAC								
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
INPUT	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%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)								
	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%
	AC CURRENT	0.8A / 115VA			.32A/277VAC		0070			00,0
	INRUSH CURRENT(Typ.)	COLD START 55A(twidth=270µs measured at 50% lpeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA / 240VAC								
	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59~66V
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
ENVIRONMENT	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 SAFETY STANDARDS Note.8	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750, CSA C22.2 No. 250.0-08, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, IP67, J61347-1 J61347-2-13, BIS IS15885(for 24V only), EAC TP TC 004, GB19510.1, GB19510.14 approved ; design refer to UL60950-1								
	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC								
SAFETY &	ISOLATION RESISTANCE	I/P-0/P:100M Ohms / 500VDC / 25°C / 70% RH								
EMC	EMC EMISSION Note.8	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥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								
	MTBF	3786.9K hrs min. Telcordia SR-332 (Bellcore); 440.6Khrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	162.5*43*32mm (L*W*H)								
	PACKING		s/15.4Kg/0.93	CUFT						
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 Please refer to the warranty The ambient temperature d 	ETHODS OF at 20MHz of the lerance, line re- nder low input asured at first of a component of al equipment ro- meanwell.com latest ErP reg ted to the mai life expectance y statement or	LED MODULI pandwidth by u ggulation and lo voltages. Plea cold start. Turr that will be ope manufacturers n//Upload/PDF ulation for light ns. cy of >50,000 n MEAN WELI	E". sing a 12" twis bad regulation. ase refer to "ST ning ON/OFF t erated in comb must re-qualify //EMI_statement ting fixtures, th hours of opera L's website at l	ted pair-wire te TATIC CHARA he driver may ination with fir y EMC Directiv nt_en.pdf) is LED driver (tion when Tca http://www.mea	rminated with a CTERISTIC" s lead to increas al equipment. re on the comp can only be us ise, particularly anwell.com	a 0.1uf & 47uf p sections for det se of the set up Since EMC pe olete installation sed behind a su	oarallel capacito ails. o time. erformance will n again. witch IMP, per DLC)	be affected by , is about 70℃	or less.





Typical output current normalized by rated current (%)

50

100

lo(%)



