

# LED Driver

LP1060-xx-BB-170 Series Switch-Mode LED Driver	
Total Power	60 Watts
Input Voltages	90-264 VAC
Number of Outputs	One

# Product Specifications

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## SPECIAL FEATURES      ELECTRICAL SPECIFICATIONS

- UL1310, Class 2 recognized
- Single output, ranged from 7V up to 24VDC
- IP54 certified
- Suitable for dry and damp locations
- Designed for outdoor or indoor applications
- Built-in junction boxes for easy installation
- Compact, lightweight w/ aluminum case
- Active PFC to reduce power consumption

Input range	90 to 264 VAC, Full range
Frequency	47 to 63 Hz
Power Factor	> 0.90 at full load, 115VAC
Inrush current	40.0 Amps maximum at 230VAC, cold start, 25° C
Input current	1.0Amps maximum at 90VAC
Efficiency	80% typical at 230VAC and maximum load
EMI filtering	47CFR, Part 2, Part 15 and Cispr PUB, 22 Class A
Maximum power	60W
Current Accuracy	±1%
Load regulation	±3%
Ripple/Noise	1%
Leakage Current	500uA typ.
Hold up time	Half cycle minimum at 120 VAC and 80% of rated load
Protection	Over-voltage, Over current and Short circuit protection: Auto-recovery

## ENVIRONMENTAL

Operating temperature:	-25 to 70 ° C (De-rating : 1% per ° C from 50°C )
Storage temperature:	-40 to 85 ° C
Humidity (Non-Condensing):	5% to 95%
Cooling:	Convection
Vibration Frequency:	5 to 50 Hz
MTBF:	>100,000 Hours at full load and 25°C ambient conditions (MIL-217F)
EMC :	Compliant to 47CFR, Part 2, Part15 and Cispr PUB, 22 Class A

## SAFETY

UL	UL1310, Class 2 certified,E234571
CE	Certified

## MODEL INFORMATION – SINGLE OUTPUT

Model	Constant Voltage Mode			Constant Current Mode			Max. Output (W)	OCP (A)	OVP (V)
	Adjustable Vdc (V)	Max. Output (A)		Working Vdc (V)	Output Range (A)				
		50°C	70°C		50°C	70°C			
LP1060-24-BB-170	18 ~ 24	2.50	2.00	13 ~ 24	1.75~2.5	1.75~2.0	60	3 ~ 3.5	28 ~ 33
LP1060-23-BB-170	18 ~ 23	2.60	2.10	13 ~ 23	1.75~2.6	1.75~2.1			
LP1060-22-BB-170	18 ~ 22	2.73	2.20	13 ~ 22	1.75~2.73	1.75~2.2			
LP1060-21-BB-170	14 ~ 21	2.85	2.30	11 ~ 21	2.00~2.85	2.0~2.3	60	3.4 ~ 4	25 ~29
LP1060-20-BB-170	14 ~ 20	3.00	2.40	11 ~ 20	2.0~3.0	2.0~2.4			
LP1060-19-BB-170	14 ~ 19	3.15	2.50	11 ~ 19	2.0~3.15	2.0~2.5			
LP1060-18-BB-170	14 ~ 18	3.33	2.70	11 ~ 18	2.0~3.33	2.0~2.7	60	4.2 ~ 5	20 ~24
LP1060-17-BB-170	10 ~ 17	3.50	2.80	9 ~ 17	2.45~3.5	2.45~2.8			
LP1060-16-BB-170	10 ~ 16	3.75	3.00	9 ~ 16	2.45~3.75	2.45~3.0			
LP1060-15-BB-170	10 ~ 15	4.00	3.20	9 ~ 15	2.45~4.0	2.45~3.2	60	6 ~ 7	15 ~ 18
LP1060-14-BB-170	10 ~ 14	4.25	3.40	9 ~ 14	2.45~4.25	2.45~3.4			
LP1060-13-BB-170	7 ~ 13	4.60	3.70	7 ~ 13	3.20~4.6	3.2~3.7			
LP1060-12-BB-170	7 ~ 12	5.00	4.00	7 ~ 12	3.2~5.0	3.2~4.0	60	6 ~ 7	15 ~ 18
LP1060-10-BB-170	7 ~ 10	5.00	5.00	7 ~ 10	3.2~5.0	3.2~5.0			

## MECHANICAL DRAWING

### Model Information – Single DC output

#### LP1060-XX-YZ-E

- XX – Voltage rating, 07, 08, 09, 10 ..... 24.
- Y – AC input side plate options, refer to drawing for more details
- Z – DC output side plate options, refer to drawing for more details
- E – Aluminum enclosure length, 170, 240, 290.