

# LP1060 Series

# Product Specifications

ANZ#: Z098a, February 15, 2007

<b>LP1060-XX-YZ-E Series</b>	
<b>Switch-Mode LED Driver</b>	
Total Power	60 Watts
Input Voltages	90-264 VAC
Number of Outputs	One

SPECIAL FEATURES	ELECTRICAL SPECIFICATIONS
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<ul style="list-style-type: none"> <li>• UL1310, Class 2 recognized</li> <li>• Single output, ranged from 7V up to 24VDC</li> <li>• IP54 certified</li> <li>• Suitable for wet or damp locations</li> <li>• Designed for outdoor or indoor applications</li> <li>• Built-in junction boxes for easy installation</li> <li>• Compact, lightweight w/ aluminum case</li> <li>• Active PFC to reduce power consumption</li> </ul>	<table border="0"> <tr> <td>Input range</td> <td>90 to 264 VAC, Full range</td> </tr> <tr> <td>Frequency</td> <td>47 to 63 Hz</td> </tr> <tr> <td>Power Factor</td> <td>&gt; 0.90 at full load, 115VAC</td> </tr> <tr> <td>Inrush current</td> <td>40.0 Amps maximum at 230VAC, cold start, 25° C</td> </tr> <tr> <td>Input current</td> <td>1.0Amps maximum at 90VAC</td> </tr> <tr> <td>Efficiency</td> <td>80% typical at 230VAC and maximum load</td> </tr> <tr> <td>EMI filtering</td> <td>47CFR, Part 2, Part 15 and Cispr PUB, 22 Class A</td> </tr> <tr> <td>Maximum power</td> <td>60W</td> </tr> <tr> <td>Current Accuracy</td> <td>±1%</td> </tr> <tr> <td>Load regulation</td> <td>±3%</td> </tr> <tr> <td>Ripple/Noise</td> <td>1%</td> </tr> <tr> <td>Leakage Current</td> <td>500uA typ.</td> </tr> <tr> <td>Hold up time</td> <td>Half cycle minimum at 120 VAC and 80% of rated load</td> </tr> <tr> <td>Protection</td> <td>Over-voltage, Over current and Short circuit protection: Auto-recovery</td> </tr> </table>	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
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<b>ENVIRONMENTAL</b>	
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  
CE



### 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-YZ-E	18 ~ 24	2.50	2.00	13 ~ 24	1.75~2.5	1.75~2.0	60	3 ~ 3.5	28 ~ 33
LP1060-23-YZ-E	18 ~ 23	2.60	2.10	13 ~ 23	1.75~2.6	1.75~2.1			
LP1060-22-YZ-E	18 ~ 22	2.73	2.20	13 ~ 22	1.75~2.73	1.75~2.2			
LP1060-21-YZ-E	14 ~ 21	2.85	2.30	11 ~ 21	2.00~2.85	2.0~2.3			
LP1060-20-YZ-E	14 ~ 20	3.00	2.40	11 ~ 20	2.0~3.0	2.0~2.4			
LP1060-19-YZ-E	14 ~ 19	3.15	2.50	11 ~ 19	2.0~3.15	2.0~2.5	60	3.4 ~ 4	25 ~ 29
LP1060-18-YZ-E	14 ~ 18	3.33	2.70	11 ~ 18	2.0~3.33	2.0~2.7			
LP1060-17-YZ-E	10 ~ 17	3.50	2.80	9 ~ 17	2.45~3.5	2.45~2.8			
LP1060-16-YZ-E	10 ~ 16	3.75	3.00	9 ~ 16	2.45~3.75	2.45~3.0			
LP1060-15-YZ-E	10 ~ 15	4.00	3.20	9 ~ 15	2.45~4.0	2.45~3.2	60	4.2 ~ 5	20 ~ 24
LP1060-14-YZ-E	10 ~ 14	4.25	3.40	9 ~ 14	2.45~4.25	2.45~3.4			
LP1060-13-YZ-E	7 ~ 13	4.60	3.70	7 ~ 13	3.20~4.6	3.2~3.7			
LP1060-12-YZ-E	7 ~ 12	5.00	4.00	7 ~ 12	3.2~5.0	3.2~4.0	60	6 ~ 7	15 ~ 18
LP1060-11-YZ-E	7 ~ 11	5.00	4.00	7 ~ 11	3.2~5.0	3.2~5.0			
LP1060-10-YZ-E	7 ~ 10	5.00	5.00	7 ~ 10	3.2~5.0	3.2~5.0			
LP1060-09-YZ-E	7 ~ 9	5.00	5.00	7 ~ 10	3.2~5.0	3.2~5.0			
LP1060-08-YZ-E	7 ~ 8	5.00	5.00	7 ~ 9	3.2~5.0	3.2~5.0			
LP1060-07-YZ-E	7	5.00	5.00	7	3.2~5.0	3.2~5.0			

### MECHANICAL DRAWING

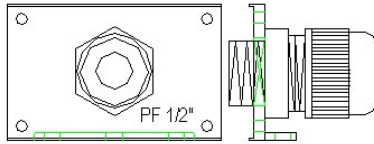
**Model Information – Single DC output**  
**LP1060-XX-YZ-E**  
 XX – Voltage rating, 07, 08, 09, 10 ..... 24.  
 Y – AC input side plate options, refer to drawing for more details  
 Z – DC output side plate options, refer to drawing for more details  
 E – Aluminum enclosure length, 170, 240, 290.

# MECHANICAL DRAWING (AC INPUT VS. DC OUTPUT)

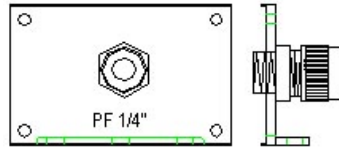
## LP1060-XX-YZ-E

### Y – AC input side plate options

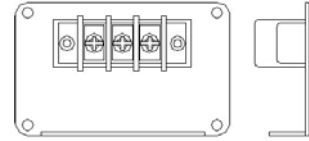
GM-PF21-G



GM-PF13-G

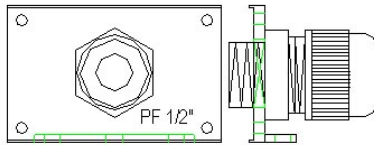


TL-03-T



### Z – DC output side plate options

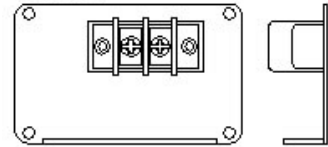
GM-PF21-G



GM-PF13-G



TL-02-T



**Note: End plates and Glands for wet location application can be ordered separately.**

