



# 60W LED ELECTRONIC DRIVER

POWER SUPPLIES

PROJECT:

PREPARED BY:

DATE:

TYPE:



## FEATURE

- Output constant voltage
- Built-in PFC function
- Protections: short circuit/ over voltage/ over heat
- Cooling by free air convection
- Flicker-free
- Work with leading edge & trailing edge triac dimmers
- Class 2, Class P, Type HL, CE, UL, FCC compliant
- PWM output, does not change the color index
- Metal housing
- Suitable for dry location
- Strong compatibility, flicker-free dimming
- Suitable for LED lighting and moving sign applications
- Compliance to worldwide safety regulations for lightings.
- Compatible with Forward phase, Reverse phase, Triac, MLV, ELV Dimmers
- 3 years warranty

## PERFORMANCE

|                 |             |                 |                       |
|-----------------|-------------|-----------------|-----------------------|
| • Wattage       | 60W         | • Dimming Range | 0-100%                |
| • Input Voltage | AC 100-277V | • Weight        | 2.4 lb                |
| • PF            | >0.99       | • Dimensions    | 7.4" x 3.6" x 1.02"   |
| • Efficiency    | >88%        |                 | (188mm x 92mm x 26mm) |

## ORDERING GUIDE

| Model   | Dimming      | Output Voltage | Wattage | Rate Current | Load Regulation |
|---------|--------------|----------------|---------|--------------|-----------------|
| LB55481 | Dimmable     | 12V            | 60W     | 5A           | 2±              |
| LB55489 | Non-Dimmable | 24V            | 60W     | 2.5A         | 1±              |
| LB55488 | Dimmable     | 24V            | 60W     | 2.5A         | 1±              |





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## SPECIFICATION CHART

|                     | Voltage                     | 12V  | 24V                     |
|---------------------|-----------------------------|--|-------------------------|
| Output              | Voltage Accuracy            | ±0.5V  |                         |
|                     | Voltage Regulation          | ±0.5%  |                         |
|                     | Rated Current               | 5.00A  | 2.50A                   |
|                     | Load Regulation             | ±2%  | ±1%                     |
|                     | Rated Power                 | 60W  |                         |
|                     | Input                       | Voltage Range  | 100-277V AC             |
| Frequency Range     |                             | 47~63HZ  |                         |
| Power Factor (Typ.) |                             | 0.98@120VAC 0.94@277VAC  | 0.98@120VAC 0.95@277VAC |
| Output              | Full Load Efficiency (Typ.) | >83%@110V, >85%@277VAC   | >85%@110V, >86%@277VAC  |
|                     | AC Current (Typ.)           | 0.93A/120VAC   |                         |
|                     | Inrush Current (Typ.)       | 14A,50% , 780us @120v ;50A,50% 176us@230V ; 15A 50% 660us@277V       |                         |
|                     | Leakage Current             | <0.50mA  |                         |
|                     | Over Voltage                | ≤140VAC(90~135V), ≤285VAC(170~277V)                                  |                         |
| Environment         | Working Temperature         | -40~+60°C  |                         |
|                     | Working Humidity            | 20~90%RH, non-condensing   |                         |
|                     | Storage Temp. Humidity      | -40~+80°C, 10~95%RH  |                         |
|                     | Temp. Coefficient           | ±0.03%/°C (0~50°C)   |                         |
|                     | Vibration                   | 10~500Hz, 2G 10min./1 cycle, period for 60min. each along X,Y,Z axes |                         |



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## DIMMING AND CONNECTING DIAGRAM

