



300W 5 IN 1

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 & wet 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
- 5 years warranty

PERFORMANCE

| | | | |
|-----------------|-------------|----------------|-------------------------|
| • Wattage | 300W | • Environmennt | IP67 |
| • Input Voltage | AC 100-277V | • Minimum Load | 20% |
| • PF | >0.97 | • Weight | 4 lb |
| • Efficiency | >93.5% | • Dimensions | L 10" x W 4.3" x H 1.7" |
| • Dimming Range | 0-100% | | |

ORDERING GUIDE

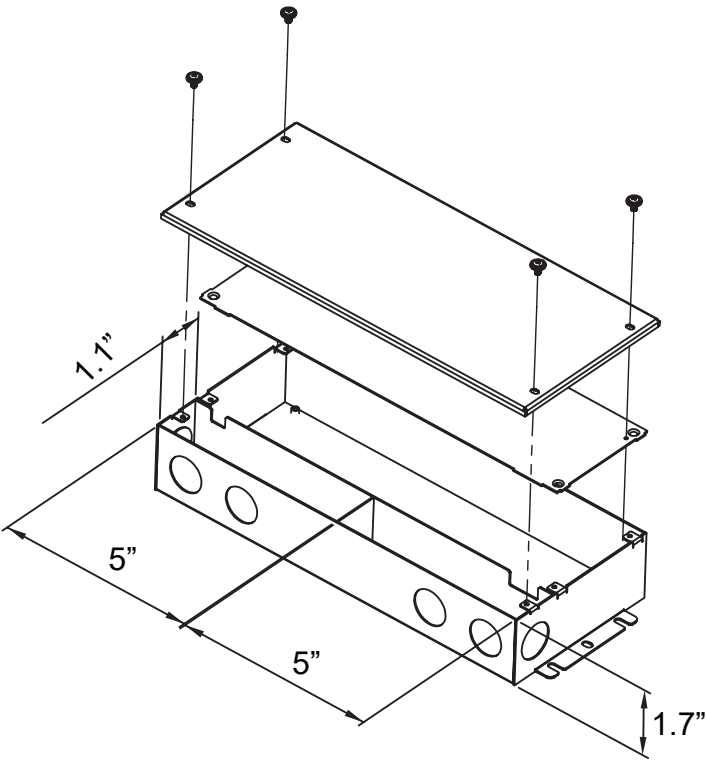
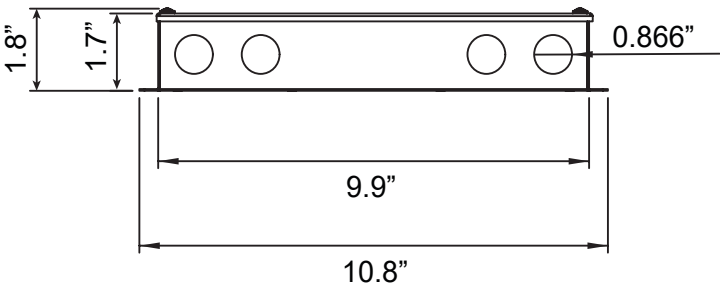
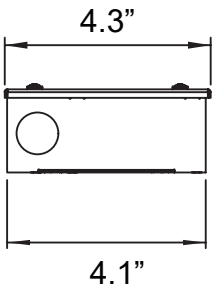
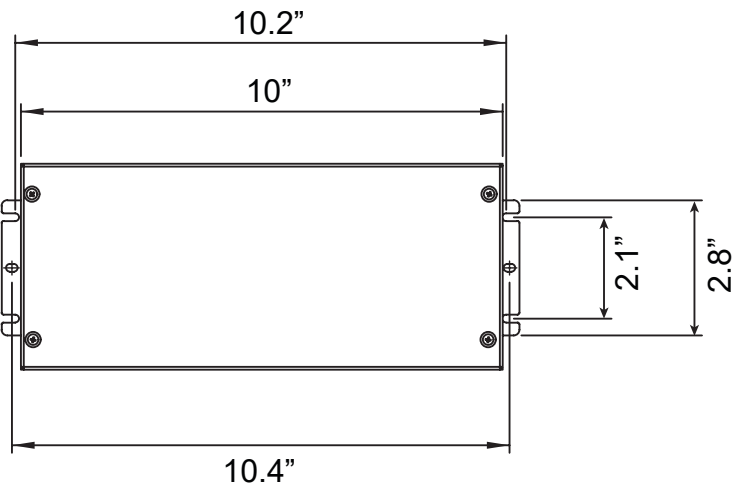
| Model | Dimming | Output Voltage | Wattage | Load Regulation |
|---------|---------------|----------------|---------|-----------------|
| LB55502 | Triac / 0-10V | 24V | 300W | 2± |



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DIMENSION





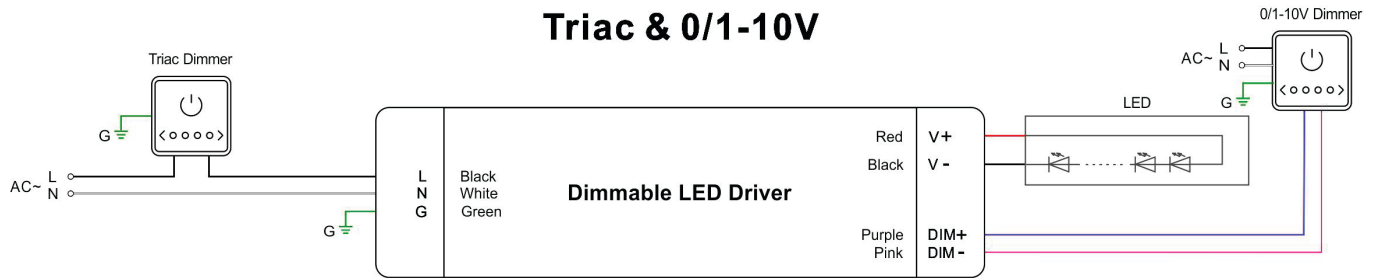
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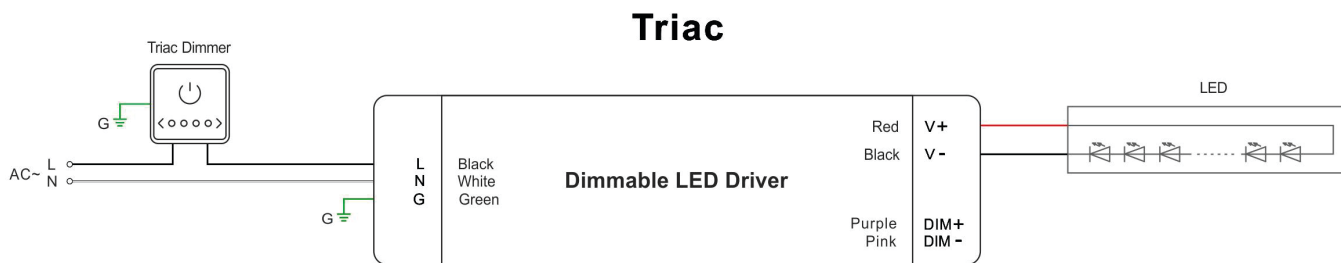
SPECIFICATION CHART

| | | |
|-------------|-----------------------------|--|
| Output | Voltage | 24V |
| | Voltage Tolerance | ±2% |
| | Voltage Regulation | ≤0.5% |
| | Load Regulation | ≤2% |
| | Rated Current | 12.5A |
| | Rate Power | 300W |
| | Voltage Ripple | 400mVp-p |
| | Overshoot Voltage | <1% full load / <2% no load |
| | Output Voltage Adjustment | 24-25.5V |
| Input | Voltage Range | 110-277V |
| | Frequency Range | 47-63Hz |
| | Power Factor (Typ.) | >0.97@277VAC |
| | THD (Typ.) | <15%@277VAC |
| | Full Load Efficiency (Typ.) | ≥93.5%@277VAC |
| | AC Current (Max.) | ≤1.4A@277VAC |
| | Inrush Current (Typ.) | 132A@50%Ipeak 180us @277VAC |
| | Leakage Current | <0.5mA |
| Protection | Short Circuit | Hiccup mode, can be automatically restored after abnormal removal |
| | Over Load | ≥120%, Constant - Current Mode, automatic recovery after exception |
| | Over Temperature | When the ambient temperature exceeds 55°C ±5°C, the output is turn off |
| Environment | Working Temperature | -40°C to 40°C |
| | Working Humidity | 20-95%RH Non-condensing |
| | Storage Temperature | -40°C to 80°C, 10-95%RH Non-condensing |
| | Temperature coefficient | ±0.03%/°C (0-50°C) |
| | Vibration | 10-500Hz, 5G 12 minutes/cycles, X Y Z axis 72 minute each |

DIMMING AND CONNECTING DIAGRAM



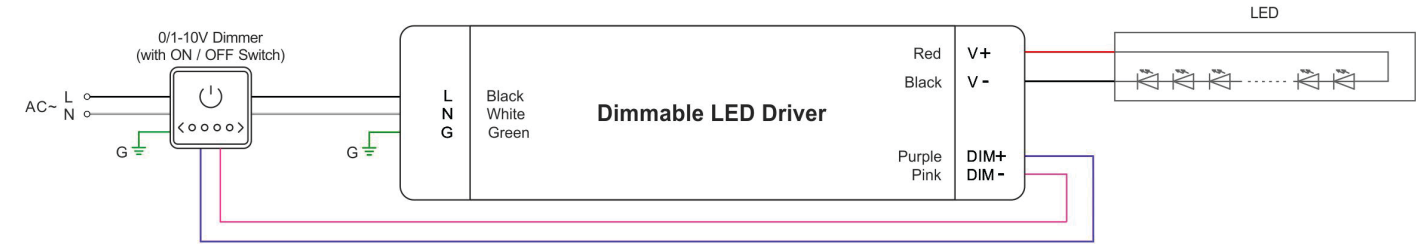
Using two ways of dimming at the same time
you must be assured that LED lighting is up to the max. Brightness then you could operate with the other dimming



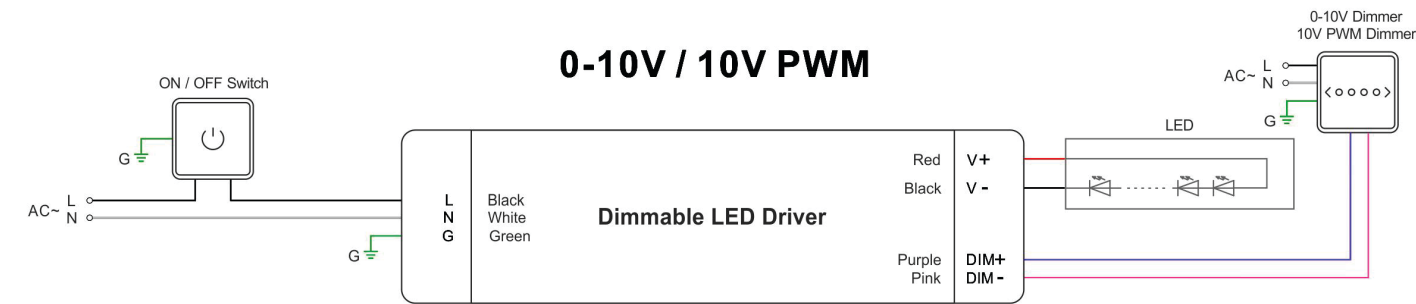
Using one dimming ---TRIAC/Phase cut dimming

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with forward phase /leading edge, MLV and Reverse phase /trailing edge, ELV, TRIAC dimmers or light system.
3. Min. loading is about 20%
4. Please try to use dimmers with power at least 1.5 times as the output power of the driver.

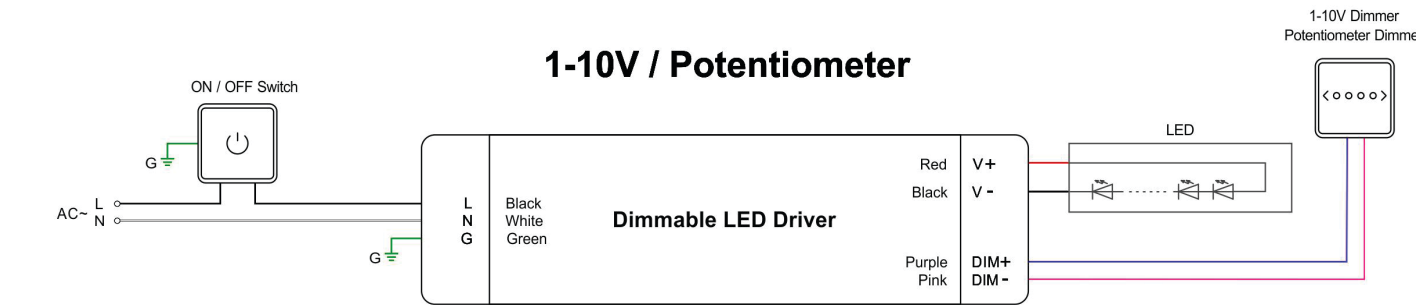
0/1-10V



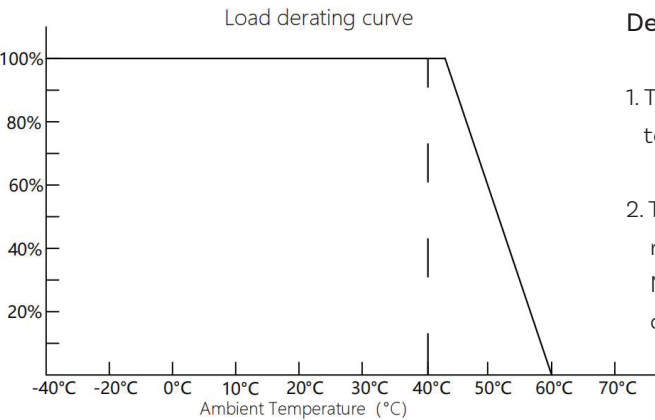
0-10V / 10V PWM



1-10V / Potentiometer



Using one dimming ---0-10/ 1-10V/ 10V PWM/ Potentiometer dimming



Derating Curve (output load vs TEMP.)

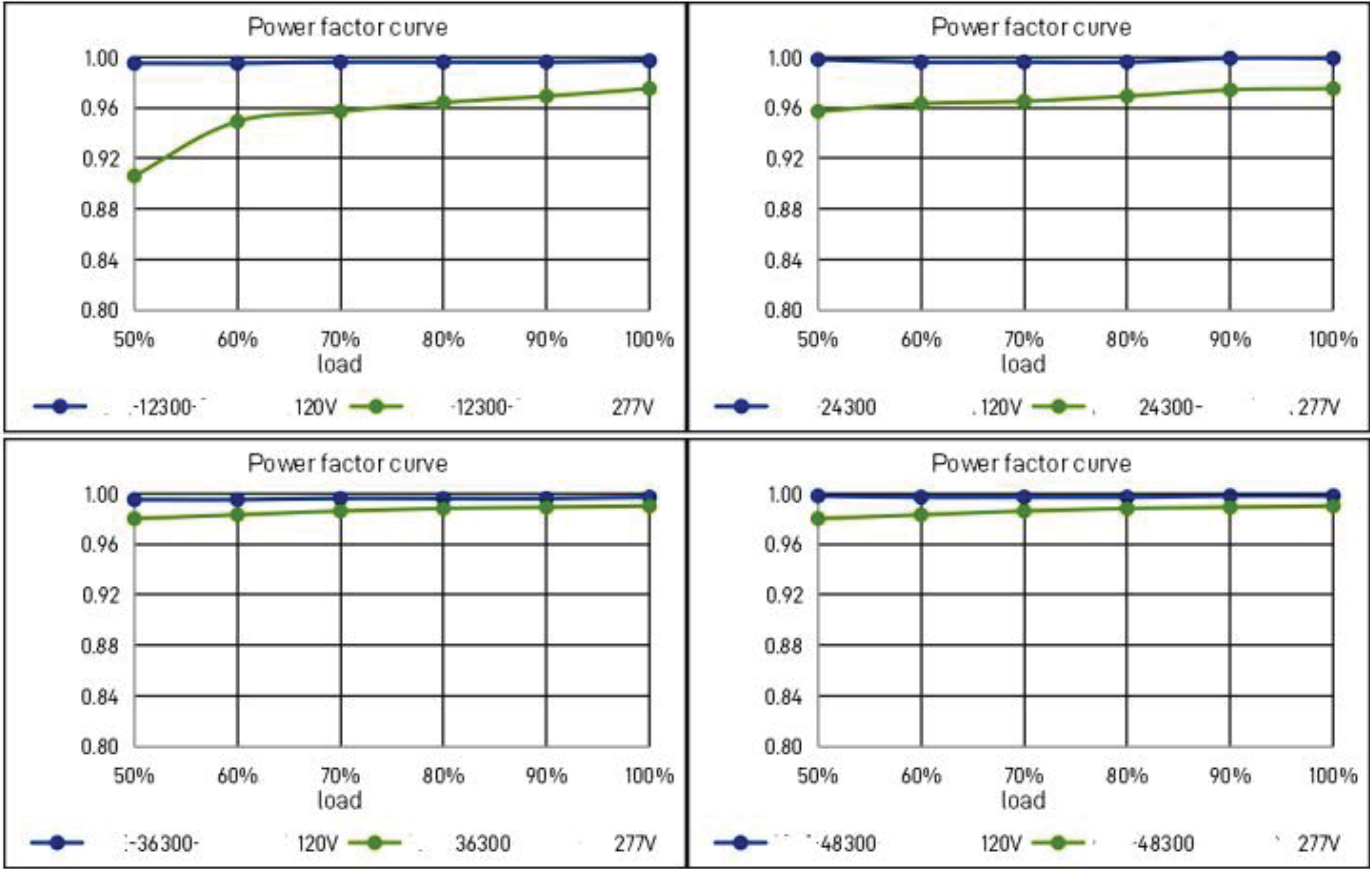
1. To extend their life, please refer to the Derating Curve and derate according to the temperature.
2. The output current of the LED driver should be selected according to the rated current of the lamp and the ambient temperature.
Normally, we recommend the power supply to reserve a certain amount of load to extend LED driver's life.



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POWER FACTOR CURVE





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EFFICIENCY CURVE

