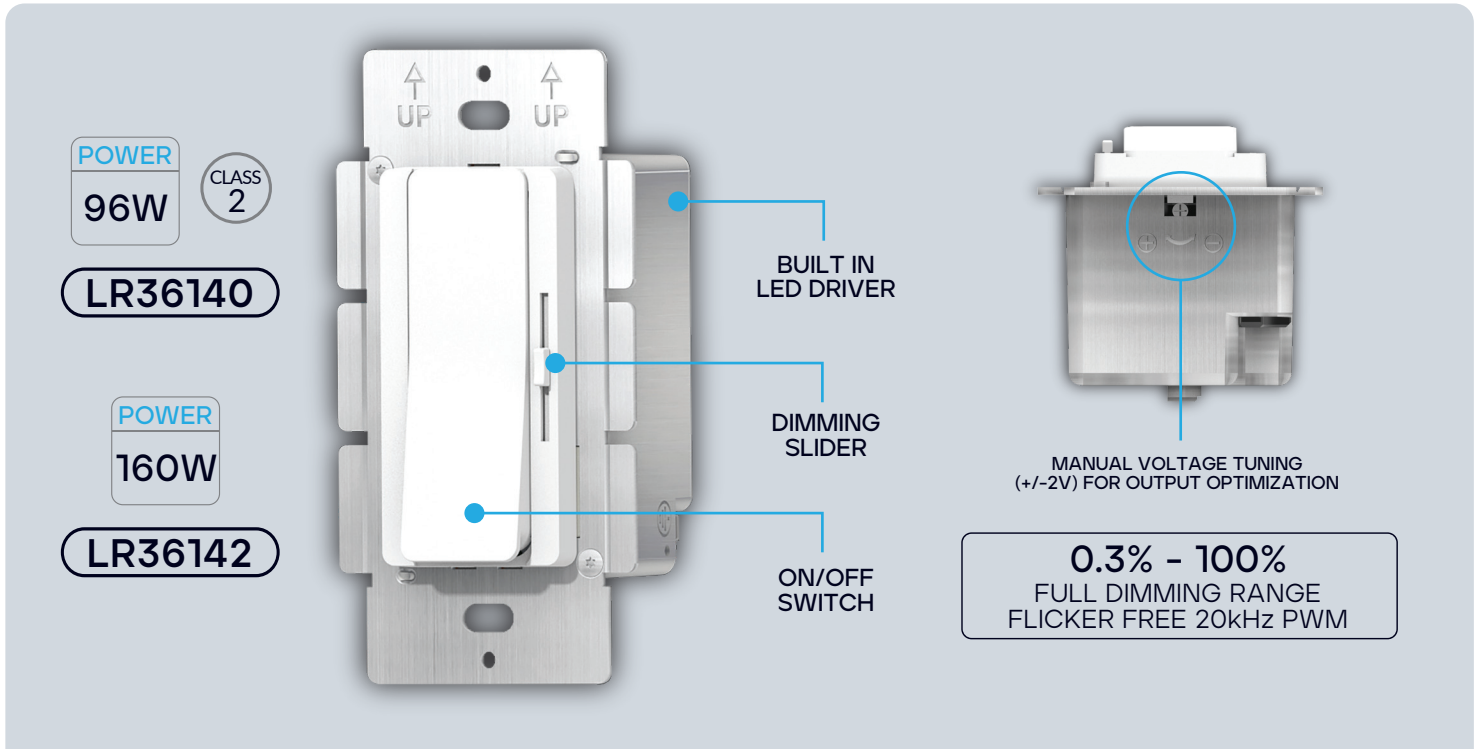


MICRO DRIVER + DIMMER 96W, 160W



POWER
96W
CLASS 2

LR36140

POWER
160W

LR36142

BUILT IN
LED DRIVER

DIMMING
SLIDER

ON/OFF
SWITCH

MANUAL VOLTAGE TUNING
(+/-2V) FOR OUTPUT OPTIMIZATION

0.3% - 100%
FULL DIMMING RANGE
FLICKER FREE 20kHz PWM

LED DIMMER +
MICROELECTRONIC
DRIVER

SINGLE POLE/3-WAY

DC OUTPUT
24V

AC INPUT
120V

CONSTANT
VOLTAGE

3
YEAR
WARRANTY

FEATURES

| | |
|-------------------------|---|
| Output: | Constant Voltage |
| Input Range: | 120VAC |
| PFC design: | Built-in active PFC function |
| Protections: | Short circuit/ Over load/ Over temperature |
| Heat dissipation: | Cooling by free air convection |
| Waterproof performance: | For dry and damp locations (US) |
| Design features: | 1) Fine-tune output voltage can be adjusted slightly |
| | 2) Preset dimmer with on/off function |
| | 3) 3-Way switches |
| | 4) Eliminated compatibility issues between drivers and switches |
| Dimming range: | 0.3%-100% |
| Application: | LED lighting |
| Others: | 20KHZ PWM output with dimming curve is a gamma 2.2 curve Flicker-free |

MICRO DRIVER + DIMMER

96W, 160W

SPECIFICATIONS

| | | LR36140 | LR36142 |
|----------------------------------|---|---|------------------------------|
| | | LED/DM/MDRV/CV2/96/24V/120V | LED/DM/MDRV/CV/160/24V/120V |
| CERTIFIED & COMPLIANT | | UL/cUL/FCC/Class P/SELV/RoHS | UL/cUL/FCC/Class P/SELV/RoHS |
| OUTPUT | DC Rate Voltage | 24V (24V-26V adjust by knob) | 24V (24V-26V adjust by knob) |
| | Voltage Tolerance | ±0.5V | ±0.5V |
| | Load Regulation | ≤1% | ≤1% |
| | Line Regulation | ≤0.5% | ≤0.5% |
| | Rated current | 4A | 6.67A |
| | Rated power | 96W | 160W |
| INPUT | Voltage Range | 120VAC | 120VAC |
| | Frequency Range | 60Hz | 60Hz |
| | Power Factor @ full load | ≥0.99 | ≥0.99 |
| | THD(Typ.) @ full load | ≤10% | ≤10% |
| | Efficiency @ full load | 91.0% | 94.5% |
| | AC Current (Max.) | 0.9A | 1.5A |
| | Inrush Current (Typ.) | 50A, 150us@50% Ipeak | 54A, 290us@50% Ipeak |
| | Leakage current | <0.5mA | <0.5mA |
| PROTECTION | Short Circuit | Hiccup mode, recovers automatically after fault condition is removed | |
| | Over Load | ≥110% Hiccup mode, recovers automatically after fault condition is removed | |
| | Over temperature | Shell surface temperature 100°C±10°C shut down o/p voltage, automatically recover after cooling | |
| ENVIRONMENT | Working TEMP. | -40~+60°C (see below derating curve) | |
| | Working Humidity | 20 - 95%RH non-condensing | |
| | Storage TEM.,Humidity | -40 - +80°C,10 - 95% RH non-condensing | |
| | TEMP.coefficient | ±0.03%/°C(0 - 50°C) | |
| | Vibration | 10~500Hz, 2G 12min./1 cycle, period for 72 min. each along X,Y,Z axes | |
| SAFETY & EMC | Safety standards | UL8750 CAN/CSA-C22.2 No.250.13 (US) | |
| | Withstand voltage | I/P-O/P:1.8KVAC I/P-F/G:1.8KVAC O/P-F/G:0.5KVAC (US) | |
| | Isolation resistance | I/P-O/P:100MΩ / 500VDC / 25°C / 70% RH | |
| | EMC Immunity | FCC/ICES do not request this test (US) | |
| | EMC Emission | FCC Part15 Subpart B ANSI C63.4:2014 (US) | |
| PACKAGING | Net Weight | 0.55lb (0.25kg) | |
| | Dimension | 4.134"x2.126"x1.996" (105*54*51mm) | |
| | Case Qty. | | |
| NOTES | 1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°C of ambient temperature. | | |
| | 2. Tolerance: includes set up tolerance and load regulation . | | |

MICRO DRIVER + DIMMER 96W, 160W

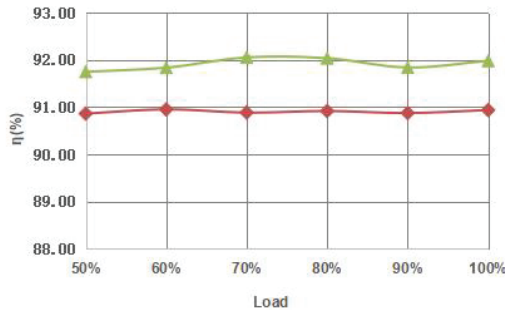
PERFORMANCE

POWER

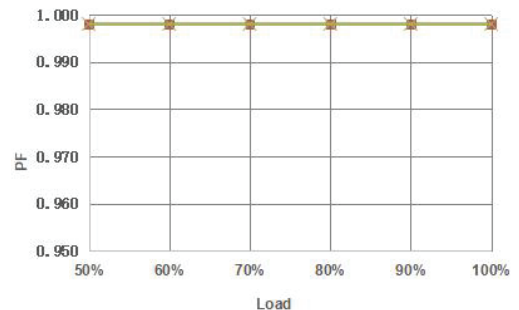
96W

LR36140

EFFICIENCY CURVE
(EFFICIENCY VS OUTPUT LOAD)



POWER FACTOR CURVE

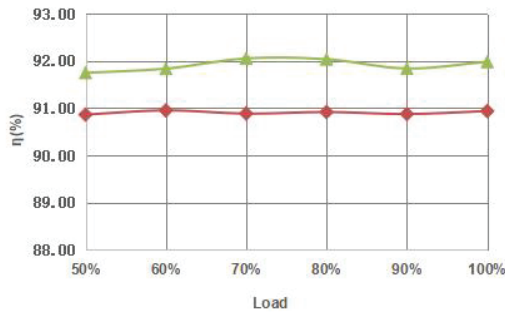


POWER

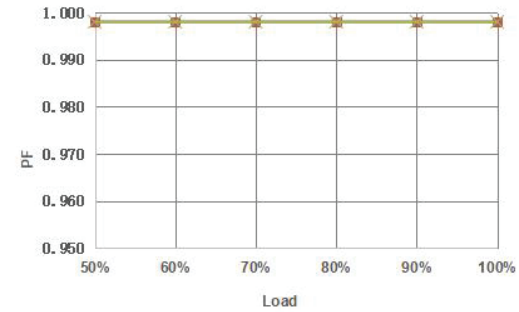
160W

LR36142

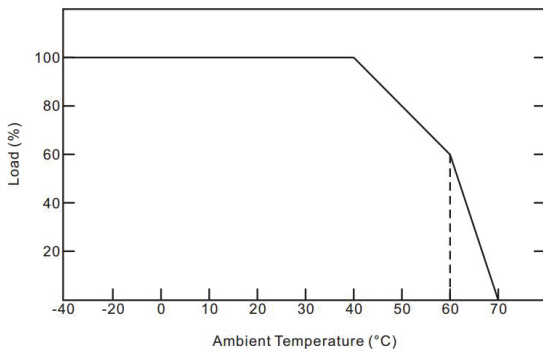
EFFICIENCY CURVE
(EFFICIENCY VS OUTPUT LOAD)



POWER FACTOR CURVE



DERATING CURVE
(OUTPUT POWER VS AMBIENT TEMP)



PLEASE NOTE:

- To extend driver life, please refer to the Derating Curve and derate according to the temperature.
- 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 .

American Wire Gauge

Input wires

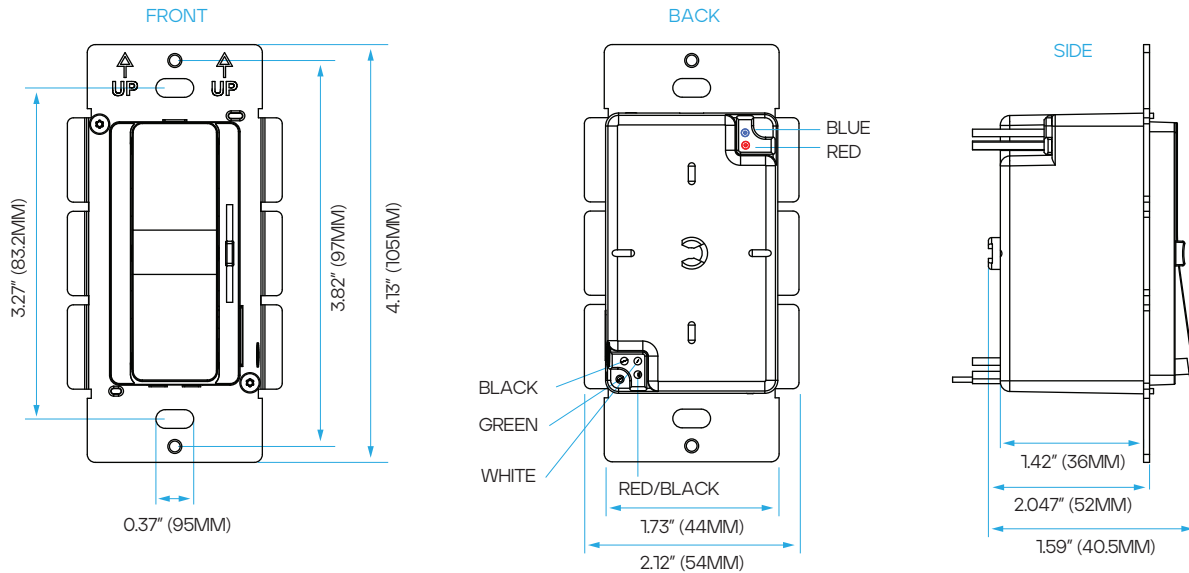
Black cable (L), Red black cable (L1), White cable (N) and Green cable (FG) (4*18AWG)

Output wires

Red Cable (V+), Blue Cable (V-) (2*18AWG)

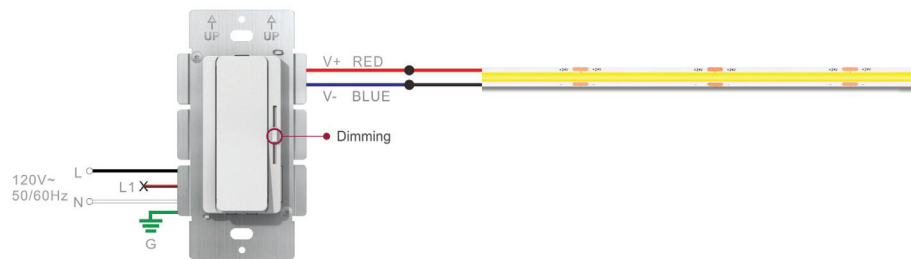
MICRO DRIVER + DIMMER 96W, 160W

DIMENSIONS



WIRING

SINGLE POLE WIRING



3-WAY WIRING

