

# SML500 LED Linear Utility Lighting

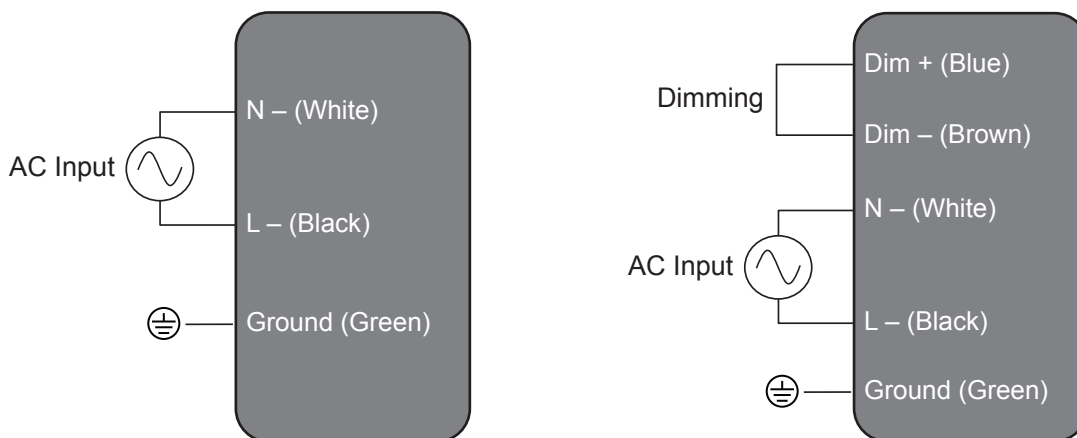
## LED Driver Electrical and Dimming Control Specification - 12Watt



Input Voltage: 90-230VAC 47~63Hz	Safety Meet: UL1310+UL8750 Class 2, CE, RoHS
Input Inrush Current: < 10A / 115VAC, < 20A / 230VAC	Operation Temp: -25°C - +65°C, Tc: 90°C
Power Factor: > 0.92 at Full Load, 115VAC, 230VAC	Storage Temp: -40°C - +85°C
Total Harmonic Distortion: <20%@230VAC	Meet: EN55015, EN61547, EN61347-2-13, EN6100-3-2,
Efficiency: ≥85%	EN61000-3-3, FCC Class B
Protection OCP, SCP, OVP - Auto Recovery	Surge Protection: 4.5KV

NOTE: All Values Have ±7% Tolerance  
0-10V Dimming Control

### Wiring & Application Diagram



- NOTE:**
- Ensure that all line voltage wire is intended for specified product wattage.
  - Use UL and / or CE approved wires for all input connections, minimum size required 22 AWG (0.33mm<sup>2</sup>)
  - Refer to the specific dimmer installation manual for exact wiring instructions.

### WARNING

#### RISK OF ELECTRIC SHOCK

- Installation must be done by a certified electrician and / or qualified personnel.
- Make sure to turn OFF the main power from the circuit breaker or fuse box before installing, servicing or inspecting this luminaire.
- Make sure all grounding wires are connected correctly.

### Output Dimming Control

The method to dim the output current of the driver is done via the +Dim/-Dim Signal pins. The +Dim/-Dim Signal pins respond to a 1 to 10 V signal, delivering 10% to 100% of the output current based on rated current for each model. A pull-up resistor is included internal to the driver. When the +Dim input is <1 V or short circuited to the -Dim wire (grey) or to the -LED wire (black), the output current is programmed to 10% of rated current. If the +Dim input is >10V or open circuited, the output current shall be programmed to 100% of rated current. The maximum current supplied by the +Dim Signal pin is < 600  $\mu$ A.

The following graph shows the relationship of the output current to the dimming input voltage.

