



**RPK Constant Current LED Driver**

**INPUT**

Input Voltage Range: 95 – 135 VAC (Optional 220-277 VAC)  
 Frequency Range: 47 – 63 Hz  
 Power Consumption: 13 – 70 W  
 Efficiency: up to 85%      Pf: 0.90 minimum

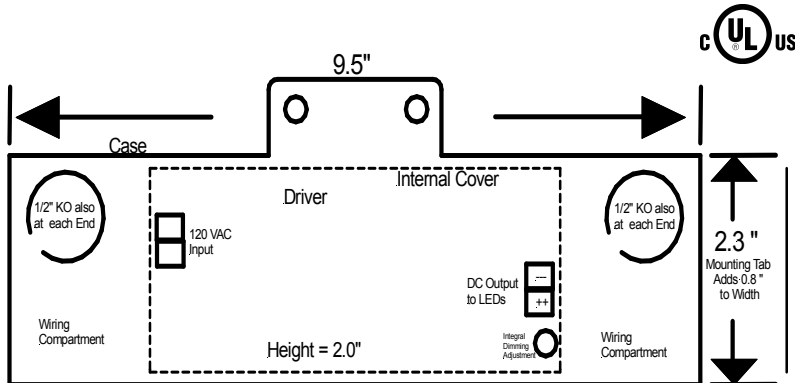
**OUTPUT**

Output voltage range: 15 – 60 VDC (Minimum Load Required)  
 Output Current: .350 (standard); Optional 700ma (-7) or 1000ma (-10)  
 Current Accuracy: 1%    Load Regulation: 3%

**Dimming – Must Use Shielded Wiring**

0 – 10 VDC (Control signal fed to driver)  
 PWM (Pulse Width Modulation)  
 SF-120-DIM (Dimmer Interface with traditional dimming)

**Model -D; Dimming – Use of Traditional Dimming (add -D)**  
 Use of Incandescent Wall Box Dimmer or Control System (N/A for 1000ma)



**RPK LED Driver (Select Using Guide Below)**

|   |  |
|---|--|
| RPK -   | 120 VAC Input (-120) or Specify Voltage (-xxx)<br>50-60 Hz (standard)                                    |
|   | -30 or -30D (120 VAC input Only)<br>-40 or -40D (120 VAC input Only)<br>-60 or -60D (120 VAC input Only) |
|   | 350ma (standard), 700ma (-7), 1000ma (-10)<br>"D" N/A for 1000ma   |
|   | Indoor (Standard), Optional Outdoor (-O), Completely encapsulated – except for wiring compartments (-Y)  |
|   | Standard Case (Mount Tabs + Wiring Compartments)   |
| * Optional items may not be stocked – and built to order only<br>Reserve the right to update information without notice |  |

- Low Voltage and Low Current Output
- Short, thermal and overload protected with Auto Recovery
- Indoor/Dry Location Standard, (Wet Location Optional)
- Five Year Warranty
- High Efficiency – up to 85% efficient
- Wide Ambient Temperature Range (-30C to 40C)
- Dimmable; Several Options Available
- Low Voltage Wiring in Wet Locations limited to 30VDC Max

**Calculating Driver Requirements**

When LEDs are current driven and driven in series, the DC Forward Voltage (Fv) accumulates on the circuit with each LED added. All Gemini One Five Luminaires shipped to be powered by a remote driver will be marked with Fv in order to simplify load calculations. These drivers require a minimum load/Fv of 15 VDC and may not operate properly if not loaded properly.

**Long Wire Runs from RPK to LEDs**

LEDs can be run hundreds of feet away (use 18 AWG wire minimum – shielded wiring not required), but total voltage drop between the driver and the LEDs must be added to the Forward Voltage Calculation. Therefore, if powering LEDs with a cumulative Forward Voltage of 58.8 volts, total voltage drop must not exceed 1.2 volts. As an example, LEDs driven at 700ma using 18 AWG wire; 100 feet of wire is approximately 1.0 volts of drop. Increasing wire AWG or reducing load (Accumulated Fv or drive current) extends wire run distances.

**Job Name:**

**Type:**