

# RWL3525 Series LED Solar Roadway Lighting

## LED Driver Electrical and Dimming Control Specification 35-65Watt



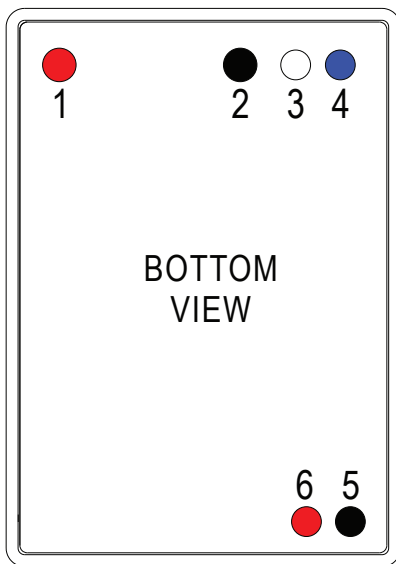
### Input Specification

|              |  |  |         |
|--------------|--|--|---------|
| INPUT        | VOLTAGE RANGE <small>Note.2</small>            | 9.5~32VDC  |         |
|              | EFFICIENCY (Typ.)                              | 91.5%/12V  | 95%/24V |
|              | DC CURRENT (Typ.)                              | 6.2A/12VDC, 3.1A/24VDC   |         |
| DIMMING      | DIMMING FUNCTION <small>Note.2</small>         | Leave open if not used<br>1KHz-3KHz 10V PWM signal or 0-10V DC input                       |         |
|              | QUIESCENT INPUT CURRENT IN SHUTDOWN MODE(Typ.) | 10mA when PWM dimming OFF @12VDC   |         |
| PROTECTION   | SHORT CIRCUIT                                  | Output short circuit, the power supply will be damaged                                     |         |
|              | OVER VOLTAGE                                   | 35W-61~100V / 50W-47~80V / 65W-38~60V  |         |
|              | NO LOAD  | Output voltage rise to OVP, and drop equal to input voltage, re-power to recovery          |         |
| ENVIRONMENT  | WORKING TEMP.                                  | -40 ~ +60°C (Refer to "Derating Curve")  |         |
|              | WORKING HUMIDITY                               | 20 ~ 90% RH non-condensing   |         |
|              | STORAGE TEMP., HUMIDITY                        | -40 ~ +85°C, 10 ~ 95% RH   |         |
|              | TEMP. COEFFICIENT                              | ±0.03%/°C (0 ~ 50°C)   |         |
|              | VIBRATION                                      | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes                    |         |
|              | SOLDERING TEMPERATURE                          | Wave soldering: 265°C,5s (max.); Manual soldering: 390°C,3s (max.)                         |         |
| SAFETY & EMC | SAFETY STANDARDS                               | LVD BS EN/EN61347-1, BS EN/EN61347-2-13, EAC TP TC 004 approved                            |         |
|              | EMC EMISSION                                   | Compliance to BS EN/EN55015;EAC TP TC 020  |         |
|              | EMC IMMUNITY                                   | Compliance to BS EN/EN61547,BS EN/EN61000-4-2,3,4,6,8; light industry level, EAC TP TC 020 |         |

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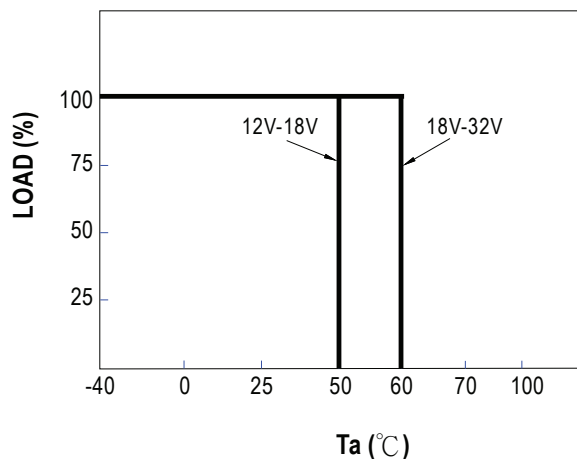
### Wiring Connection Diagram



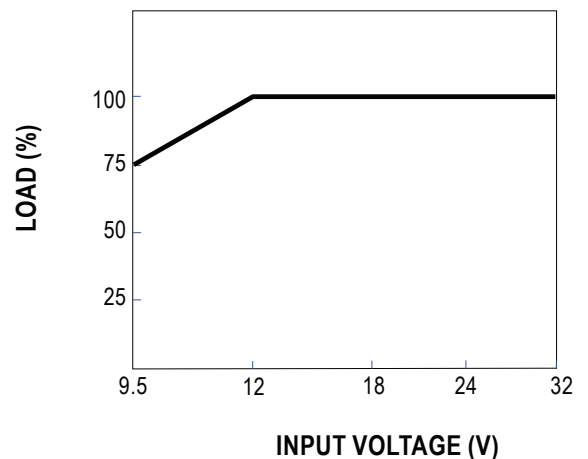
| Wire No. |              | Comment                   |
|----------|--------------|---------------------------|
| 1        | Vin+(Red)    | DC (+) Input Supply       |
| 2 *      | Vin-(Black)  | DC (-) Input Supply       |
| 3        | Dim-(White)  | 2 in 1 dimming            |
| 4        | Dim+(Blue)   | 2 in 1 dimming            |
| 5 *      | Vout-(Black) | LED (-) Output connection |
| 6        | Vout+(Red)   | LED (+) Output connection |

**\* Caution Do NOT Connect Input Black Wire No 2 to Output Black Wire No 5**

### Derating Curve



### Static Characteristic



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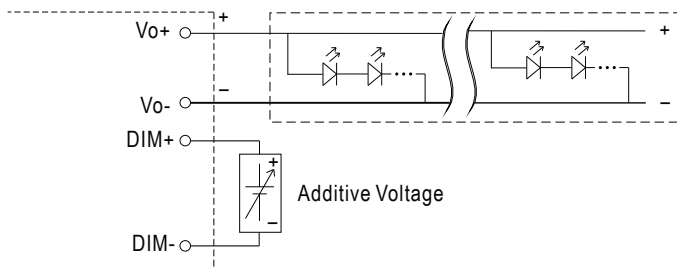
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### Wiring Connection Diagram

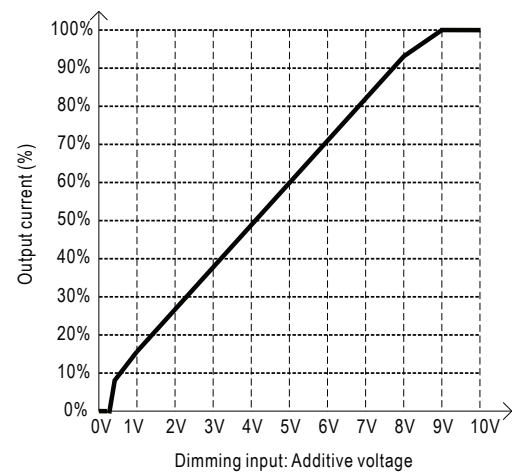
#### ※ 2 in 1 dimming function

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-: 0 ~ 10VDC, or 10V PWM signal
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.

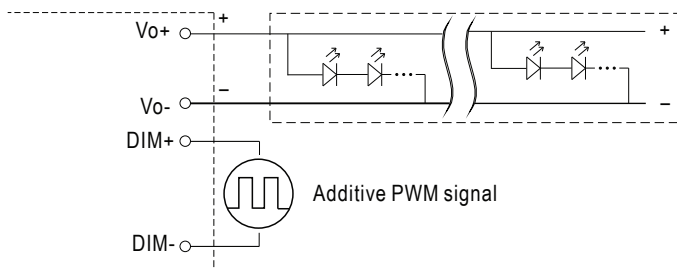
#### ◎ Applying additive 0 ~ 10VDC



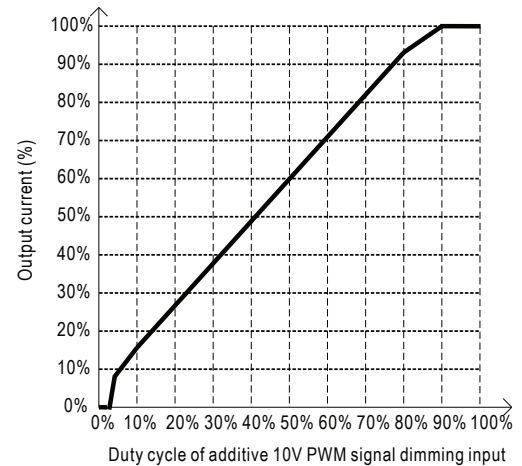
"DO NOT connect "DIM- to Vo-"



#### ◎ Applying additive 10V PWM signal (frequency range 1KHz ~ 3KHz):



"DO NOT connect "DIM- to Vo-"



Note: 1. Min. dimming level is about 8% and the output current is not defined when  $0\% < I_{out} < 8\%$ .

2. The output voltage is about equal to input voltage when dimming input is about 0Vdc, or 10V PWM signal with 0% duty cycle.