

# RWL600 Series

## LED Solar Roadway Lighting

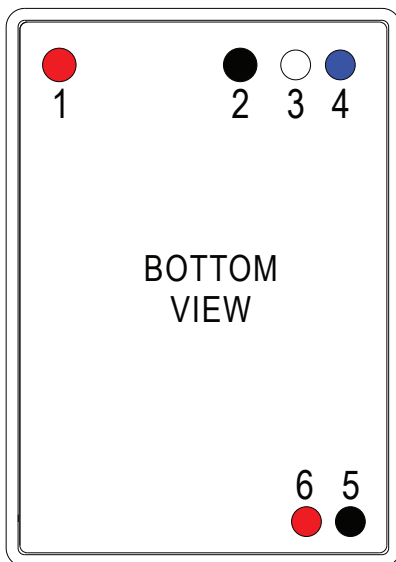
### LED Driver Electrical and Dimming Control Specification 25-70Watt



#### 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 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	

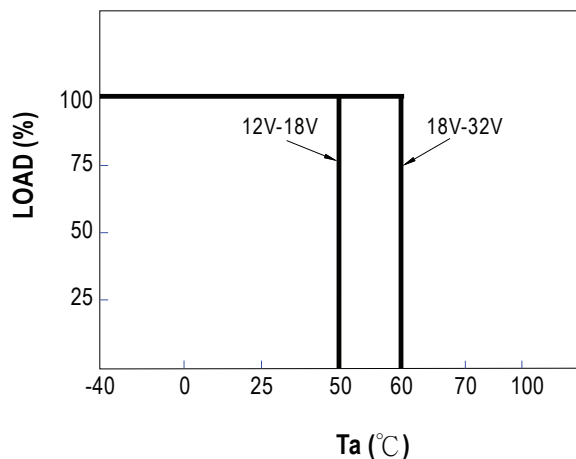
### Wiring Connection Diagram



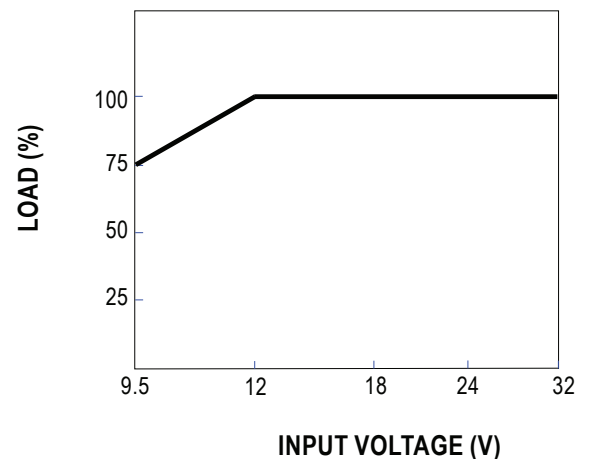
Wire No.		Comment
1	Vin+(Red)	DC (+) Input Supply
2 *	Vin-(Black)	DC (-) Input Supply
3	Dim-(White)	2 in 1 dimming
4	Dim+(Blue)	2 in 1 dimming
5 *	Vout-(Black)	LED (-) Output connection
6	Vout+(Red)	LED (+) Output connection

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

### Derating Curve



### Static Characteristic

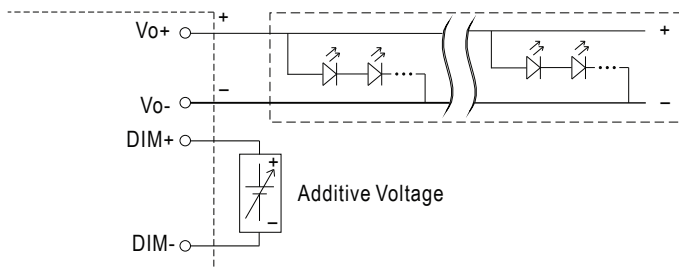


## Wiring Connection Diagram

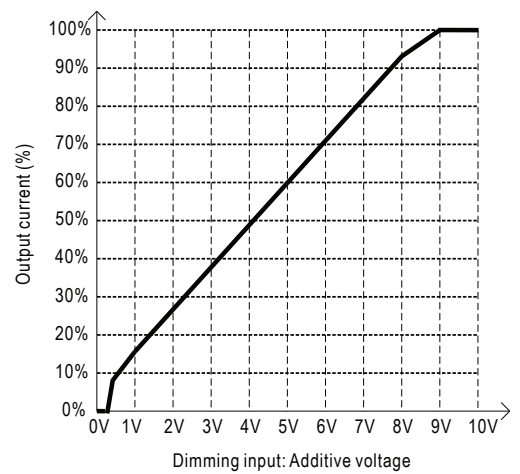
### ※ 2 in 1 dimming function

- 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.

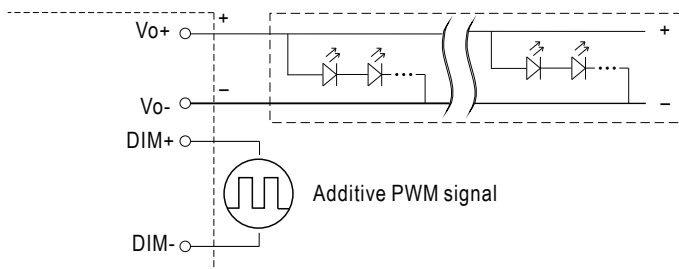
#### ☉ Applying additive 0 ~ 10VDC



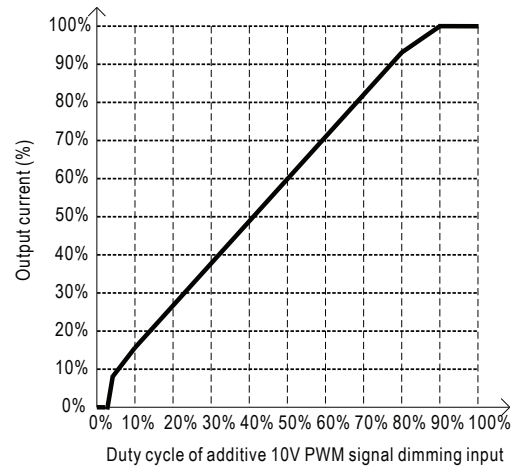
"DO NOT connect "DIM- to Vo-"



#### ☉ 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.