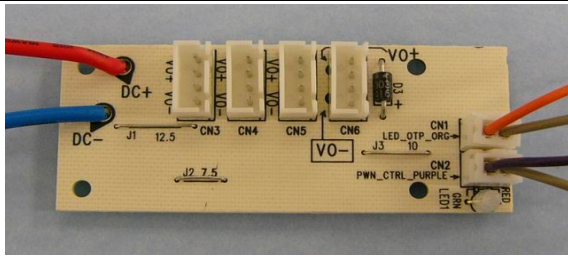


# SDVN series



**Open Frame**



**With Case**

## FEATURES

- \*External constant voltage 1KHz PWM control LED dimming module
- \*conform to the 0-10V sink type controls dimmer as specified in IEC 60929 Annex E( note 1, 2).
- Two input voltage models available: LV model handles 10.5V ~ 30V DC input, HV model handles 24V ~ 60V DC input
- \*remote temperature sensing connection available to reduce output duty cycle in case of over temperature on the monitoring point
- 0 ~ 5A output, high efficiency up to 99%
- Designed for signage and lighting application, compatible to standard off the shelf 0-10V dimmer
- Compliance to worldwide safety regulations for lighting
- 5 years warranty

## SPECIFICATION

MODEL		SDVN-LV	SDVN-HV
INPUT	Input Voltage RANGE	10.5V ~30V DC input	24V ~60V DC input
	Input/Output switch Current	5 A max	5 A max
	Control Voltage	0-10Vdc control	0-10Vdc control
OUTPUT	DC output voltage	10.5V ~30V DC	24V ~60V DC
	Dimming Range	0 - 100%	0 - 100%
	RATED POWER	150W	300W
	EFFICIENCY (Typ.)	99%	99%
PROTECTION	OVER TEMPERATURE	external LED temperature regulation input with optional temperature sensor module	
ENVIRONMENT	WORKING TEMP.	-20 to +80 C ambient at full load.	
	WORKING HUMIDITY	0% to 100%, non-condensing	
	STORAGE TEMP., HUMIDITY	-40 to 85 C, 0% to 95%RH	
SAFETY	SAFETY STANDARDS	design to meet UL requirement	
OTHERS	MTBF	>500K hours, MIL-HDBK217E at 25 degrees C ambient.	
	DIMENSION	open frame 2.78"L (72mm) x 1.18"W (30mm) with case 2.95"L (75mm) x 1.31"W (33mm) x 0.79"H (20mm)	
	Wire Size	Input: 18 AWG standard, 6 inches Control & output: 22 AWG standard, 6 inches	

- NOTE**
1. The external control signal source connected to the SDVN-LV purple and gray control wires, should have the capability to sink a minimum of 10mA for multiple SDVN-LV modules connected together. A single module requires a minimum sink current of 250uA
  2. In IEC standard for current sink controls - Standard 60929 Annex E. it requires that the ballast (or river) provides full light output when the control voltage is 10 Volts (or above). As the control voltage is reduced by the control, the light level is reduced. At a control voltage of 1 volt, the ballast (driver) provides it's minimum light level. Any voltage less than 1 volt is defined as minimum. Some drivers' minimum is off, while other drivers' minimum is the lowest light level of the driver. It is important to understand what minimum is for a particular driver. For drivers that do not go to off at minimum, a separate relay or switching device is required. Our SDVN min dimming level can be factory set to what customer required
  3. external temperature sensor module and PCB dimension

