



## D96 Series

The D96 Series Universal dimming driver from Southern State Lighting is one of the most reliable, versatile power supplies on the market.

- 120-277V Input
- 24V Constant Voltage Output
- Compatible with ELV, MLV, 0-10V, PWM, and Triac Dimmers
- Dimming range is 0-100%
- UL Listed

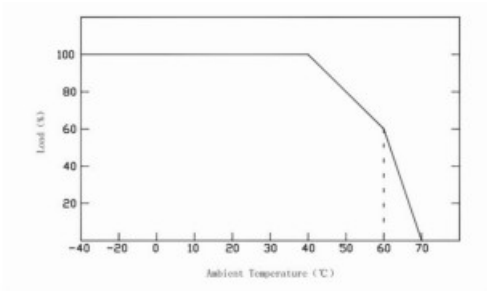


<b>Certificates</b>		UL, cUL listed, Class 2 unit, Type HL rated, FCC
<b>Output</b>	DC Voltage	24V
	Rated Current	4A
	Rated Power	96W
	Voltage Tolerance	±0.5V
	Voltage Regulation	±0.5%
	Load Regulation	±1%
<b>Input</b>	Voltage Range	100-277VAC
	Frequency Range	47-63Hz
	Power Factor (Typ.) @ full load	0.98@120VAC 0.95@277VAC
	THD (Typ.) @ full load	<20%
	Efficiency (Typ.) @ full load	83% @120Vac 86% @277Vac
	AC Current (Max.)	1.3A@100VAC
	Inrush Current (Typ.)	20A, 50%, 1.6ms
	Leakage current	<0.50mA
<b>Protection</b>	Short Circuit	shut down o/p voltage, re-power on to recover after fault condition is removed
	Over Loading	≤120% constant current limiting, auto-recovery
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.
<b>Environment</b>	Working TEMP.	-40~+60°C (see below derating curve)
	Working Humidity	20~90%RH, non-condensing
	Storage TEMP. Humidity	-40~+80°C, 10~95%RH
	TEMP .coefficient	±0.03%/°C (0~50°C)
	Vibration	10~500Hz, 5G 10min./1 cycle, period for 60min. each along X,Y,Z axes
<b>Safety&amp; EMC</b>	Safety standards	UL8750+UL1310
	Withstand voltage	I/P-O/P:1.88KVAC
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH



**Specifications**

**Derating Curve**



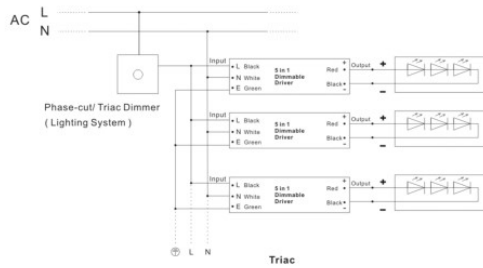
※To extend their life, please refer to the Derating Curve and derate according to the temperature.

**Wiring Diagrams**

■ Connecting Diagram

※Using TRIAC/Phase cut dimming

- 1.The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connect a phase /Triac dimmer of lighting system.
- 2.Match with leading edge and trailing edge Triac dimmer or lighting system.
- 3.Please try to use dimmers with power at least 1.5 times as the output power of the driver.



※Using 0-10V/1-10V dimming

