

#### **Driver Attributes**

- Soft-on and fade-in dimming function enhances your visual comfort
- · High frequency exemption level
- Dimming from 0~100%, down to 0.1%
- 2-CH SELV output channel with common anode automatically recognize 0-10V and 1-10V input signals
- Innovative thermal management technology
- Overheat, over-voltage, overload, short circuit protection and automatic recovery
- Suitable for indoor light applications of I/II/III type
- Up to 50,000-hour life
- 5-year manufacturer's warranty

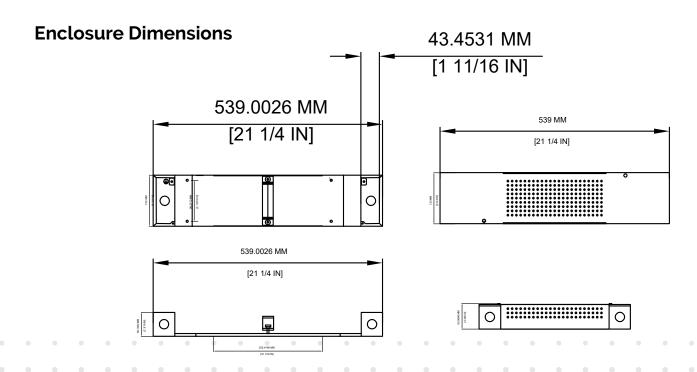
# OS-100-24V-010-TUN

Intelligent Tunable White Constant Voltage LED Driver

#### WITH ENCLOSURE











# EOS-100-24V-010-TUN

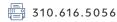
Intelligent Tunable White Constant Voltage LED Driver WITH ENCLOSURE

## **Driver Specifications**

Model	0 0 0	LM-100	-24-U2A2	0 0 0 0 0 0 0 0	
OUTPUT	Output Voltage	24Vdc			
	Output Voltage Range	24Vdc±0.5Vdc			
	Output Current	Max. 4.17A			
	Output Power	Max. 100W			
	Output Power Range	'0-100W			
	Strobe Level	High frequency exemption level			
	PWM Frequency	3600Hz			
	Dimming Range	,0~1009	0~100%, down to 0.1%		
	Overload Power Limitation	<b>≥102%</b>			
	Ripple & Noise	Switch ripple<150mV, noise<500mV			
INPUT	Dimming Interface	0-10V(1-10V/10V PWM/RX), Push DIM/CCT			
	Input Voltage	120-277Vac			
	Frequency	50/60Hz			
	Input Current	Max. 1A/120Vac, 0.55A/230Vac, 0.45A/277Vac			
	Power Factor	PF>0.99/120Vac, PF>0.95/230Vac, PF>0.9/277Vac (at full load)			
	THD	120Vac@THD < 5%, 230Vac@THD < 8%, 277Vac@THD < 11% (at full load)			
	Efficiency (typ.)	93%			
	Standby Power Loss	<0.5W			
	Inrush Current	Cold start 45A/230Vac (Test twidth = 840us under 50% Ipeak)			
	Anti Surge	L-N: 2KV			
	Leakage Current	Max. 0.5mA			
ENVIRONMENT	Working Temperature	ta: -20-50°C tc: 85°C			
	Working Humidity	20-95%RH, non-condensing			
	Storage Temperature,Humidity	-40-80°C, 10-95%RH			
	Temperature Coefficient	±0.03%/°C(-20-50°C)			
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively			
PROTECTION	Overheat Protection	Intelligently adjust or turn off the output current if the PCB temperature ≥110°C, and recover automatically			
	Overvoltage Protection	Shut d	Shut down the output when non-load voltage>28V, and recover automatically		
	Overload Protection	Shut down the output when current load≽102%, and recover automatically			
	Short Circuit Protection	Enter	Enter hiccup mode if short circuit occurs, and recover automatically		
SAFETY & EMC	Withstand Voltage	I/P-0/	I/P-0/P: 3750Vac		
	Isolation Resistance	I/P-0/	I/P-0/P: 100MΩ/500VDC/25°C/70%RH		
	Safety Standards	UL	America	UL2108	
		CUL	Canada	CSA C22.2 NO. 250. 13	
		CE	European Union	EN61347-1, EN61347-2-13, EN62384	
	EMC Emission	UL	America	FCC part 15	
		CE	European Union	EN55015, EN61000-3-2, EN61000-3-3, EN61547	
	EMC Immunity	EN610	EN61000-4-2,3,4,5,6,8,11, EN61547		
	Strobe Test Standard	IEEE 1789			











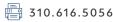
# OS-100-24V-010-TUN

Intelligent Tunable White Constant Voltage LED Driver WITH ENCLOSURE

#### **Wiring Diagrams**

# 0-10V Connection 1. Brightness adjustment Wire diameter: 1.5-2.5" (14-22AWG) Strip length: 6-7mm 0-10V DIM Brightness Wire diameter: 0.5-0.75" (22-20AWG) Wire diameter: 0.75-1.5° Strip length: 8-9mm Strip length: 8-9mm 2. Color temperature adjustment 0-10V CCT 3. Adjust brightness and color temperature separately N 2 ==8-9mm L 0.75-1.5 0-10V CCT Color temperature 0.1%-100% 0-10V DIM Brightness 4. Adjust brightness and color temperature simultaneously 0-10V CCT 0.1%-100% 0-10V DIM 0...5...10V Simultaneous adjustment







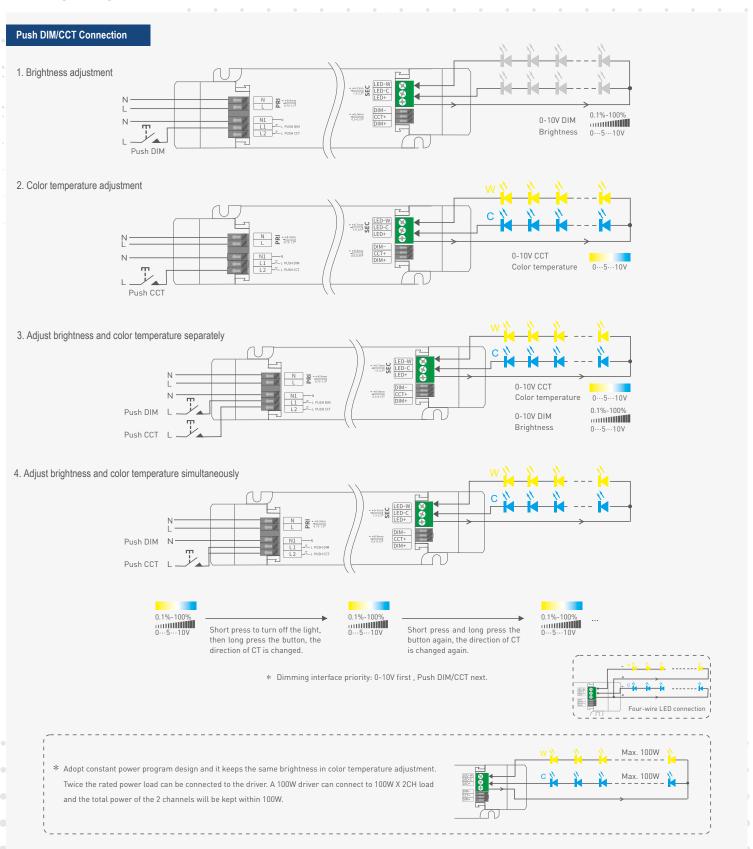


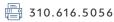
# DS-100-24V-010-TUN

Intelligent Tunable White Constant Voltage LED Driver

#### WITH ENCLOSURE

### **Wiring Diagrams**









## OS-100-24V-010-TUN

• Color temperature adjustment: Long press.

adjusted when lights are turned on.

• With every other long press, color temperature go to the opposite direction.

• Color temperature memory: Color temperature will be the same as previously

Intelligent Tunable White Constant Voltage LED Driver WITH ENCLOSURE

## UNING LightPanel System Color Coded Wiring Legend

**COLOR CODED WIRING** W 6000K **COLOR TUNING** G 2400K **LED STRIP** +HOT

#### Push DIM/CCT



- On/off control: Short press.
- · Stepless dimming: Long press.
- With every other long press, the brightness level goes to the opposite direction.
- Dimming memory: Go to the brightness level adjusted previously when lights are turned on

Reset switch

\* Applicable to brightness adjustment, color temperature adjustment and separate brightness/CT adjustment in Push DIM/CCT connection.



Reset switch

#### DIM/CCT

- On/off control: Short press.
- Stepless dimming and color adjustment: long press.
- With every other long press, color temperature go to the opposite direction.
- Dimming memory: Go to the brightness level adjusted previously when lights are turned on
- \* Applicable to simultaneous brightness and CT adjustment in Push DIM/CCT connection.

#### **Driver Warnings / Please Note:**

- Products shall be installed by qualified professionals.
- Products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.
- \* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

"🔲" 310.616.5070

