

Project Name:	Type:
Product Code:	Date:

VANILLA 2CH96W24-U5D DRIVER



2CH96W24-U5D Driver

The Vanilla 2CH96W24-U5D Driver is a constant voltage driver that has been optimized for 0-10V CCT Tunable White applications. For Tunable White use mode number 3, do not use another mode unless discussed with the factory. Along with the optimized mode it features short circuit, over load, and over temperature protections. It has a full aluminum housing that allows the driver to be suitable for dry, damp & wet locations.

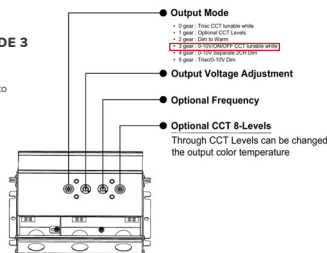
PERFORMANCE

	5 IN 1 DIMMING LED DRIVER
	96W
VOLTAGE:	100-277VAC
DIMMING RANGE:	0-100% (FLICKER FREE)
OUTPUT:	CONSTANT VOLTAGE
CLASS:	CLASS 2 CLASS P
DIMMING MODE:	MODE 3 (do not use any other mode unless discussed with factory.)
ENCLOSURE:	BUILT IN ENCLOSURE
DIMMING:	Triac / Phase / ELV / MLV / 0-10V / 1-10V / 10V PWM / Potentiometer
STANDARD:	UL8750, CLASS 2
WORKING TEMP:	-40~+122°F (-40~+50°C)

DRIVER GEARS:

out of the 6 gears available use **MODE 3** for the 2 channel option.

do not use any other mode unless directed to by the factory.



OUTPUT MODE: 6 gears Control output modes

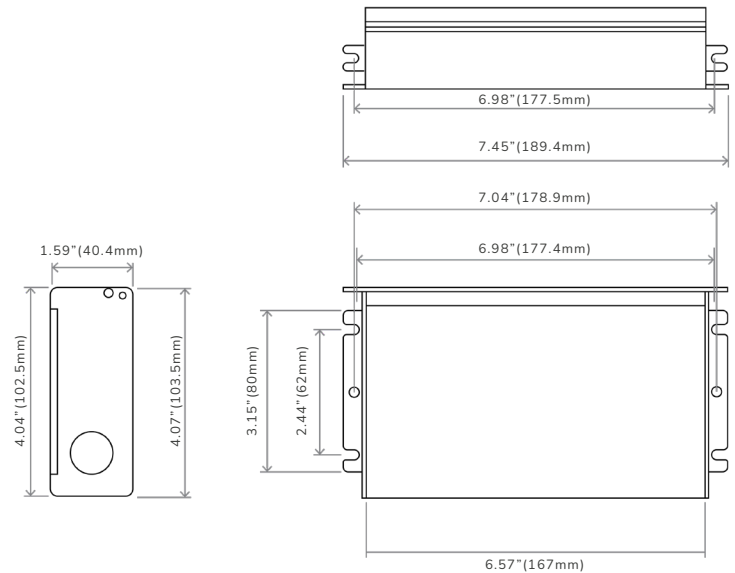
0	Triac CCT Tunable white
1	Optional CCT Levels
2	Dim to Warm
3	0-10V CCT Tunable white / Switch CCT by ON/OFF
4	0-10V Separate 2CH DIM
5	Triac 0-10V Dim

ORDER INFORMATION

Order Code			
MAKE	MODEL		
VAN	DVR	2CH96W24	U5D

KEY DIMENSIONS

Length: 7.45" (189.4mm) Width: 4.07" (103.5mm) Height: 1.59" (40.4mm)

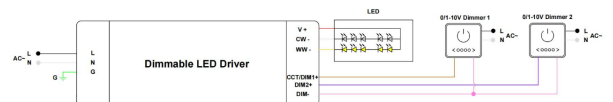


The Driver is recommended to be mounted in at least 2" of free flow air space to allow for proper ventilation.

WIRING DIAGRAM - max 70FT - NO HOT START

TERMINAL WIRING GAUGE MAX SIZE AWG#12

- **3 Gear** 0-10V CCT Tunable white | DIMMER 1 CONTROLS CCT | DIMMER 2 CONTROLS INTENSITY
- [0-10V CCT tunable white]



1. The **color temperature** of the power supply output is controlled by dimmer 1 connected from CCT+ to DIM- on the 0-10V signal.
2. The **brightness** of the power supply output is controlled by dimmer 2 connected from DIM 2+ to DIM- on the 0-10V signal.
3. When using the **0-10V dimmer** that controls the color temperature, the dimmer signal is **greater than 9 V**, the power supply will **turn to white light**, and the **color temperature will gradually decrease as the voltage decreases**. When the dimmer signal is **less than 1 V**, the power supply will turn to warm light.
4. This mode can use **three-wire dual color temperature** light strip.

TECHNICAL SPECIFICATIONS

2CH96W24-U5D

CERTIFICATION:	UL / cUL / CLASS 2 / CLASS P / TYPE HL / SELV / CE / ROHS / REACH		
DC VOLTAGE:	24V		
FINE TUNE VOLTAGE:	17-26V		
VOLTAGE TOLERANCE:	±3%		
VOLTAGE REGULATION:	<0.5%		
RATED CURRENT:	4A		
RATED POWER:	96W		
LOAD REGULATION:	±1%		
VOLTAGE RANGE:	120-277VAC		
FREQUENCY RANGE:	47-63 Hz		
POWER FACTOR (Typ.)@ full:	0.98@120VAC 0.96@277VAC		
THD(Typ.)@ FULL LOAD:	<10%@120VAC & 277VAC		
EFFICIENCY(Typ.)@ FULL LOAD:	89%@120VAC 91%@277VAC		
AC CURRENT (Max.):	1.0A		
STANDBY POWER:	<0.5W		
INRUSH CURRENT (Typ.):	101A, 50%, 346us @120VAC; 124A, 50% 760us @ 277VAC		
LEAKAGE CURRENT:	<0.5mA		
SHORT CIRCUIT:	Hiccup mode, can be automatically restored after abnormal removal		
OVER LOAD:	>120%, CONSTANT CURRENT MODE, AUTOMATICALLY RECOVERS AFTER EXCEPTION		
OVER TEMPERATURE:	100°C±10°C SHUT DOWN O/P VOLTAGE, AUTOMATICALLY RECOVER AFTER COOLING		
WORKING TEMP.:	-40~+50°C		
WORKING HUMIDITY:	20-90%RH NON-CONDENSING		
TEMP.COEFFICIENT:	±0.03%/°C(0-50°C)		
SAFETY STANDARDS:	UL8750, CAN/CSA-C22.2 NO.250.13 (US)		
WITHSTAND VOLTAGE:	I/P-O/P: 1.8KVAC	I/P-F/G:1.5KVAC	O/P-F/G:0.5KVAC (US)
ISOLATION RESISTANCE:	I/P-O/P: 100M Ω / 500VDC / 25°C / 70%RH		
EMC EMISSION:	FCC 47 CFR PART 15, SUBPART B (US)		