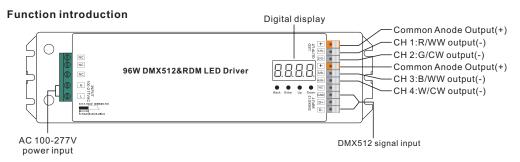
96W DMX512 & RDM LED Driver(constant voltage)

09.96RD.04763



Important: Read All Instructions Prior to Installation



Product Data

Output	LED Channel	4
	DC Voltage	24V DC
	Rated Current	Max. 4A/CH, CH1+CH2+CH3+CH4=4A
	Voltage Tolerance	±1%
	Rated Power	max. 96W (no minimum load required)
Output	Ripple & Noise (max.)	240mVp-p
	Line Regulation	±0.5%
	Load Regulation	±0.5%
	Setup Time	1500mS @ 115V, 1000mS @ 230V
	Holdup Time (Typ.)	20mS @ 115V, 230V
	Voltage Range	100-277V AC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.90 @ 230VAC
Input	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)
mput	Efficiency (Typ.)	90% @ 230VAC full load
	AC Current (Typ.)	1.2A @ 100VAC, 0.5A @ 230VAC
	Inrush Current (Typ.)	COLD START Max. 50A at 230VAC
	Leakage Current	< 0.5mA/230VAC
0 t 1	Dimming Interface	DMX/RDM
Control	Dimming Range	0%-100%

	Dimming Method	d Pulse Width Modulation	
	Dimming Curve	Linear, Logarithmic	
Protection	Over Current	Yes, recovers automatically after fault condition is removed	
	Over Temperature	Yes, recovers automatically after fault condition is removed	
	Working Temp.	-20°C ~ +50°C	
Envisor manage	Max. Case Temp.	75℃	
Environment	Working Humidity	10% ~ 95% RH non-condensing	
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH	
	Safety Standards	UL8750, CAN/CSA C22.2 No. 250.13-14, EN61347-1, EN61347-2-13 approved	
	Withstand Voltage	I/P-O/P: 3.75KVAC	
Safety & EMC	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH	
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3	
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV	
Others	MTBF	193.6K hrs min. @ 230VAC full load and 25℃ ambient temperature	
2010	Dimension	244*64*32mm (L*W*H)	

- Built-in DMX512 interface, support RDM bi-directional communication
- 100-277VAC wide input voltage
- 4 DMX512 Addresses, 4 Channels Output . DMX channel quantity from 1CH~4CH settable
- To control single color, dual color, RGB/RGBW LED lighting
- PWM output resolution ratio 8bit , 16bit settable.
- Output PWM frequency from 500HZ ~ 30K HZ settable.
- Output dimming curve gamma value from 0.1 ~ 9.9 settable.
- Compatible with universal DMX512 consoles
- Class II power supply, full isolated plastic case
- · High power factor and efficiency
- · Galvanic isolation
- IP20 rating, suitable for indoor LED lighting applications

Safety & Warnings

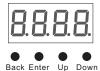
- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Operation

Button introduction

Up, Down button is for menu selection. After power on the decoder, if keep on clicking **Up** button, you will find below menu on display:

DMX signal indicator • : When DMX signal input is detected, the indicator on the display following after $\{ \}$ turns on red Rxxx.



AXXX Means DMX address. fa ctory defaults setting is 001.

AXX Means DMX channels quantity.

AXX Means Bit (8bit or 16bit). factory defaults setting is 16bit

AXX Means output PWM frequency. factory defaults setting is 1K HZ

AXX Means output dimming curve gamma value, factory defaults setting is ga 1.5

AXX Means Decoding mode, factory defaults setting is dp1.1

By holding button Back + Enter together at the same time over 5 seconds until the display go off, it will restore default settings .

1. DMX address setting (factory default is A001):

select menu XXX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to set DMX address (click is slow, hold is fast.), then click button Back" to confirm.

2. DMX channel quantity setting (factory default is CH04):

Select menu XX, click button "Enter", display flashes, then click button "Up" / "Down" to set DMX channel quantity, then click button "Back" to confirm.

For example the DMX address is already set 001.

CH01=1 DMX address for all the output channels, which are all address 001.

CH02=2 DMX addresses, output 1&3 is address 001, output 2,4 is address 002

CH03=3 DMX addresses, output 1, 2 is address 001,002, output 3,4 is address 003

CH04=4 DMX addresses, output 1,2,3,4 is address 001,002,003,004

3. PWM output resolution Bit setting (factory default is bt16):

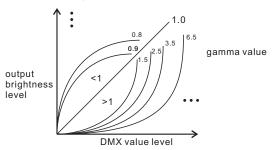
select menu XX, click button "Enter", display flashes, then click button "Up" / "Down" to choose 08 or 16 bit, then click button "Back" to confirm.

4. output PWM frequency setting (factory default is PF01 1KHz):

select menu RXX, click button "Enter", display flashes, then click button "Up" / "Down" to choose 00~30, then click button Back" to confirm. 00=500HZ, 01=1kHZ, 02=2kHZ.....30=30kHZ.

5. output dimming curve gamma value setting (factory default is gA1.5):

select menu $\frac{1}{2}$ XX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to choose 0.1~9.9, then click button "Back" to confirm.



6. DMX decoding mode setting (factory default is dP1.1):

Select menu XXX, click button "Enter", display flashes, then click or hold button "Up" / "Down" to choose the decoding mode, then click button "Back" to confirm. "dPxx" means the DMX address quantity used for control of corresponding PWM output channel quantity. 1st "x" is DMX address quantity, 2nd "x" is PWM channel quantity.

Fine dimming: the fine dimming effect can only be visible when the dimming curve gamma value is set lower than 1.4, and the lower the value is, the more visible the fine dimming effect will be.

DMX address is 001. CH01

Jiii X aaarooo io oo i, orio i					
DMX Console Slider number DMX channel	dp1.1	dp2.1			
1	for all output dimming	for all output dimming			
2	No use	for all output fine dimming			

DMX address is 001, CH02

DMX Console Slider number DMX channel	dp1.1	dp2.1	dp3.2
1	for output 1&3 dimming	for output 1&3 dimming	for output 1&3 dimming
2	for output 2,4 dimming	for output 1&3 fine dimming	for output 2,4 dimming
3		for output 2,4 dimming	for all output dimming
4		for output 2,4 fine dimming	

DMX address is 001, CH03

- mix a a a				
DMX Console Slider number DMX channel	dp1.1	dp2.1	dp4.3	dp5.3
1	for output 1 dimming	for output 1 dimming	for output 1 dimming	for output 1 dimming
2	for output 2 dimming	for output 1 fine dimming	for output 2 dimming	for output 2 dimming
3	for output 3,4 dimming	for output 2 dimming	for output 3,4 dimming	for output 3,4 dimming
4		for output 2 fine dimming	for all output master dimming	for all output master dimming
5		for output 3,4 dimming		strobe effects
6		for output 3,4 fine dimming		

DMX address is 001, CH04 (factory default)

binx address is out, office (factory default)				
DMX Console Slider number	dp1.1	dp2.1	dp5.4	dp6.4
DMX channel				
1	for output 1 dimming	for output 1 dimming	for output 1 dimming	for output 1 dimming
2	for output 2 dimming	for output 1 fine dimming	for output 2 dimming	for output 2 dimming
3	for output 3 dimming	for output 2 dimming	for output 3 dimming	for output 3 dimming
4	for output 4 dimming	for output 2 fine dimming	for output 4 dimming	for output 4 dimming
5		for output 3 dimming	for all output master dimming	for all output master dimming
6		for output 3 fine dimming		strobe effects
7		for output 4 dimming		
8		for output 4 fine dimming		

The data definitions for strobe channel are as follows:

{0, 7},//undefined

{8, 65},//slow strobe-->fast strobe

{66, 71},//undefined

{72, 127},//slow push fast close

{128, 133},//undefined

{134, 189}.//slow close fast push

{190, 195},//undefined

{196, 250},//random strobe

{251, 255},//undefined

The supported RDM PIDs are as follows:

DISC_UNIQUE_BRANCH
DISC_MUTE
DISC_UN_MUTE
DEVICE_INFO
DMX_START_ADDRESS
IDENTIFY_DEVICE
SOFTWARE_VERSION_LABEL
DMX_PERSONALITY
DMX_PERSONALITY_DESCRIPTION
SLOT_INFO
SLOT_DESCRIPTION
MANUFACTURER_LABEL
SUPPORTED_PARAMETERS

Restore to Factory Default Setting

Press and hold down both "Back" and "Enter" keys until the digital display turns off, then release the keys, system will reset and the digital display will turn on again, all settings will be restored to factory default.

Default settings are as follows:

DMX Address Code: a001

DMX Address Quantity: SW1=0: ch04, SW1=1: ch03

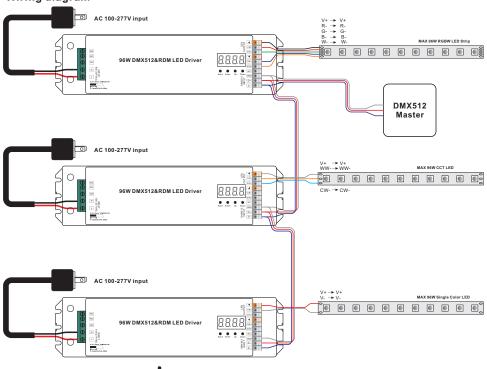
PWM Resolution Mode: bt16

PWM Frequency: pf01

Gamma: ga1.5

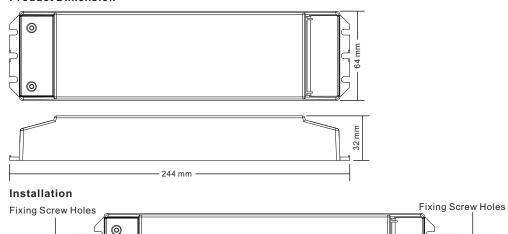
Decoding Mode: dp1.1

Wiring diagram



Product Dimension

each end.



Note: when mounting the driver, please choose any one of the three fixing screw holes to fix with a screw at