100W DMX512 & RDM LED Driver(constant voltage)

70230026











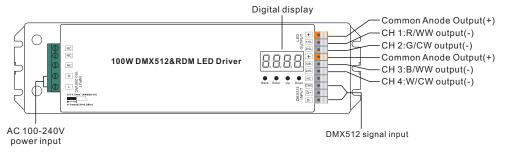




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Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	4
Output	DC Voltage	24V DC
	Max. Current	Max. 4.16A/CH, CH1+CH2+CH3+CH4=4.16A
	Voltage Tolerance	±1%
	Rated Power	max. 100W
Input	Voltage Range	100-240V AC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.90 @ 230VAC
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)
	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
	Dimming Interface	DMX/RDM
Control	Dimming Range	0.1%-100%
	Dimming Method	Pulse Width Modulation
	Dimming Curve	Linear, Logarithmic
Protection	Over Current	Yes, recovers automatically after fault condition is removed
Protection	Over Temperature	Yes, recovers automatically after fault condition is removed

Environment	Working Temp.	-20°C ~ +50°C
	Max. Case Temp.	75℃
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC	Safety Standards	TUV EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	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	188300H, MIL-HDBK-217F @ 230VAC at full load and 25℃ ambient temperature
	Dimension	244*64*32mm (L*W*H)

- Built-in DMX512 interface, support RDM bi-directional communication
- 100-240VAC 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
- · 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





XXX Means DMX address. factory default setting is 001.

HXX Means DMX channels quantity.

A Means Bit (8bit or 16bit). factory default setting is 16bit

REXX Means output PWM frequency, factory default setting is 1K HZ

Hans output dimming curve gamma value, factory default setting is ga 1.5

REAL XX Means Decoding mode, factory default 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 $\frac{1}{2}$ 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

DMX address is 001, CH01

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 micro dimming	

DMX address is 001, CH02

DIMA address is out, Citoz				
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 micro dimming	for output 2,4 dimming	
3		for output 2,4 dimming	for all output dimming	
4		for output 2,4 micro dimming		

DMX address is 001, CH03

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 micro 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 micro dimming	for all output master dimming	for all output master dimming
5		for output 3,4 dimming		strobe effects
6		for output 3,4 micro dimming		

DMX address is 001, CH04 (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 micro 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 micro 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 micro dimming		strobe effects
7		for output 4 dimming		
8		for output 4 micro dimming		

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

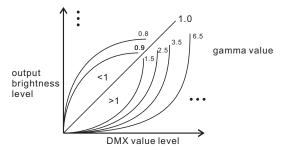
select menu . XX, click button "Enter", display flashes, then click button "Up" / "Down" to choose 08 or 16 bit. then click button "Back" to confirm.

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 XX, 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.

Micro dimming: the micro 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 micro dimming effect will be.

The supported RDM PIDs are as follows:

DISC_UNIQUE_BRANCH
DISC_UN_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

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

Wiring diagram AC 100-240V input MAX 100W RGBW LED Strip 100W DMX512&RDM LED Driver DMX512 Master AC 100-240V input MAX 100W CCT LED 8888 100W DMX512&RDM LED Driver AC 100-240V input 8.8.8.8 100W DMX512&RDM LED Driver **Product Dimension** 0 0 - 244 mm -Installation Fixing Screw Holes Fixing Screw Holes

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