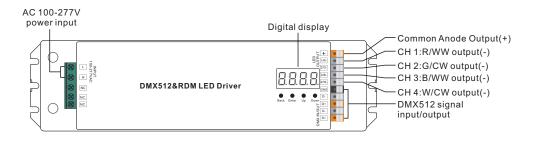
75W DMX512 & RDM LED Driver(constant voltage) 09.75RD.04763 W ∰ (€ F© ∮ROHS (FFE) SELV ⊕ ∰EE) V ⊕ ∰ © ♥ □ ♥ ▲

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	4
Output	LED Ghanner	4
	DC Voltage	24V DC
	Max. Current	Max. 3.12A/ch, ch1+ch2+ch3+ch4=3.12A
	Voltage Tolerance	±1%
	Rated Power	max. 75W
Input	Voltage Range	100-277V AC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.99 @ 100VAC, > 0.96 @ 230VAC
	Total Harmonic Distortion	THD \leq 15% (@ full load / 230VAC)
	Efficiency (Typ.)	86% @ 230VAC full load
	AC Current (Typ.)	0.9A @ 100VAC, 0.39A @ 230VAC, 0.33A@277VAC
	Inrush Current (Typ.)	COLD START Max. 2A at 230VAC
	Leakage Current	< 0.5mA/230VAC
	Standby Power Consumption	< 0.5W
Control	Dimming Interface	DMX/RDM
	Dimming Range	0%-100%
	Dimming Method	Pulse Width Modulation
	Dimming Curve	Logarithmic, Linear

Drotostica	Over Current	Yes, recovers automatically after fault condition is removed
Protection	Over Temperature	Yes, recovers automatically after fault condition is removed
	Working Temp.	-25℃ ~ +45℃
F	Max. Case Temp.	80°C
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, ENEC 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
	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
- \bullet Class ${\rm I\!I}$ 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 \bullet : When DMX signal input is detected, the indicator on the display following after \blacksquare turns on red \blacksquare XXX.



Back Enter Up Down

dp2.1

for output 1&3 dimming

for output 1&3

micro dimming

for output 2,4

for output 2.4

micro dimmina

dimmina

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

HXX Means DMX channels quantity.

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

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

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

BRXX 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:

select menu **B** 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:

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 001,002,004

DMX address is 001, CH01

DMX address is 001, CH02

4

DMX Console Slider number DMX channel	dp1.1	dp2.1		DMX Console Slider number DMX channel	dp1.1	
1	for all output dimming	for all output dimming		1	for output 1&3 dimming	
2	No use	for all output micro dimming		2	for output 2,4 dimming	
				3		

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			

The supported RDM PIDs are as follows:

dp3.2

for output 1&3

for output 2.4

for all output

dimmina

dimming

dimmina

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

3. PWM output resolution Bit setting:

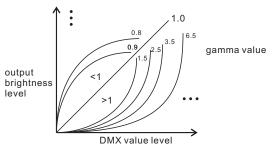
select menu **XX**, click button "Enter", display flashes, then click button "Up" / "Down" to choose 08 or 16 bit, then click button "Back" to confirm.

4. output PWM frequency setting:

select menu **B X** X, 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:

select menu **G X** X, 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:

Select menu **R** 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.

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		

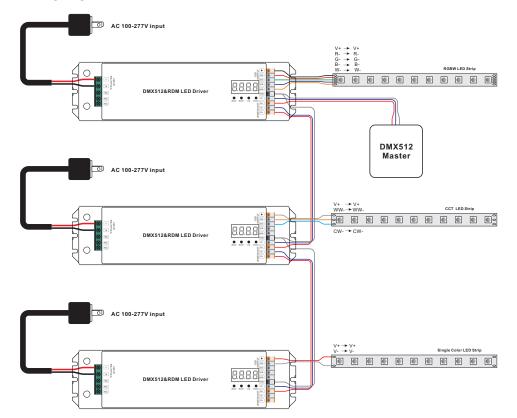
Restore to Factory Default Setting

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

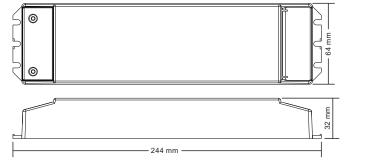
The data definitions for strobe channel are as follows:

{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



Product Dimension



Installation



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