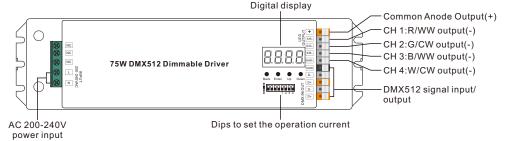
75W DMX & RDM LED Driver(Constant Current)

70230040

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

LED Channel 4										
	Selectable Current	300mA	350mA	400mA	450mA	500mA	600mA	700mA	800mA	
	DC Voltage Range	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	
Output	Selectable Current	900mA	1000mA	1100mA	1200mA	1300mA	1400mA	1500mA		
	DC Voltage Range	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V		
	Current Tolerance	±3%								
	Rated Power	Max. 64W/CH, CH1+CH2+CH3+CH4 \leq 75W								
	Voltage Range	200-240V AC								
	Frequency Range	50/60Hz								
	Power Factor (Typ.)	> 0.9 @ 230VAC								
Input	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)								
	Efficiency (Typ.)	87% @ 230VAC full load								
	AC Current (Typ.)	400mA @ 230VAC								
	Inrush Current (Typ.)) COLD START Max. 2A @ 230VAC								
	Dimming Interface	DMX/RDM								
Control	Dimming Range	0.1%-100%								
Control	Dimming Method	Pulse Width Modulation								
	Dimming Curve	Logarithmic, Linear								
Protection	Short Circuit	Yes, recovers automatically after fault condition is removed								

	Over Voltage	Yes, recovers automatica	Ily after fault condition is removed				
	Over Temperature	Yes, recovers automatically after fault condition is remo					
Environment	Working Temp.	-25°C ~ +45°C					
	Max. Case Temp.	80°C (Ta="45°C")					
	Working Humidity	10% ~ 95% RH non-condensing					
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH					
	Safety Standards	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℃ / 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					
MTBF		190200H, MIL-HDBK-217F @ 230VAC at full load and 25℃ ambient temperature					
	Dimension	244*64*32mm (L*W*H)					
Pips to set the	e operation current	1 2 3 4 300mA ●●● 350mA ●●● 400mA ●●● 450mA ●○● 500mA ●○●	1 2 3 4 800mA ○●●● 900mA ○●●○ 1000mA ○●○ 1100mA ○●○ 1200mA ○●● 1300mA ○●●				

• Dimmable LED driver, max. output power 75W total

• 4 channels constant current output, 300mA-1500mA output current optional

• Dips to set the operation current

• PWM output resolution ratio 8bit, 16bit settable.

• Output PWM frequency from 500HZ ~ 2K HZ settable.

 \bullet Output dimming curve gamma value from 0.1 ~ 9.9 settable.

 \bullet Class $I\!\!I$ power supply, full isolated plastic case

High power factor and efficiency

- To control single color, dual color, RGB/RGBW LED lighting
- Built-in DMX512 interface, support RDM bi-directional communication
- Compatible with universal DMX512 master controllers
- IP20 rating, suitable for indoor LED lighting applications

5 years warranty

Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT set the operation current with power applied
- 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 \mathbf{A} turns on red $\mathbf{A} \times \mathbf{X} \times \mathbf{A}$.



Back Enter Up Down

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

HXX Means DMX channels quantity.

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

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

BRXX 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

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

DMX address is 001, CH04

DMX Console Slider number DMX channel	dp1.1	dp2.1	dp5.4	dp6.4
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

micro 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.

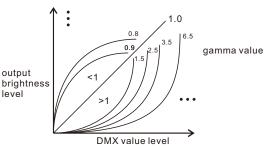
4. output PWM frequency setting:

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.

Note: The max. PWM frequency this driver allows is 2kHZ, DO NOT set it higher than 2kHZ.

5. output dimming curve gamma value setting:

select menu **9 R**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:

Select menu **H** 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

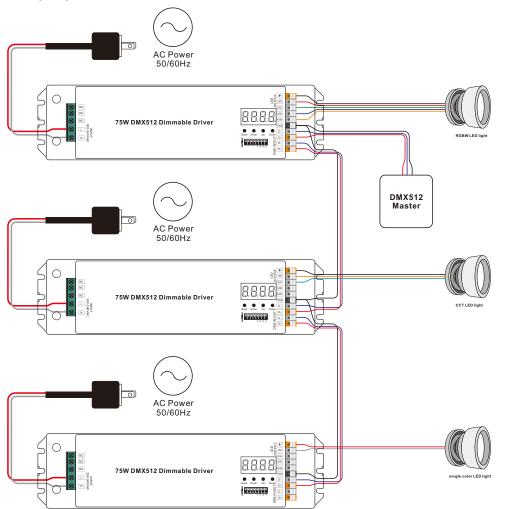
DMX Console Slider number DMX channel	dp1.1	dp2.1	dp4.3	dp5.3
1	for output 1 dimming	for output 1 dimming	for output 1 dimming	for output 1 dimming
2	for output 2 dimming	for output 1 micro dimming	for output 2 dimming	for output 2 dimming
3	for output 3,4 dimming	for output 2 dimming	for output 3,4 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

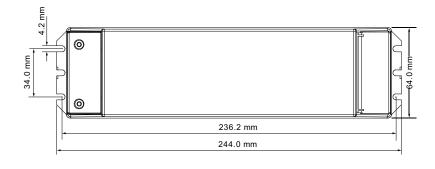
Press and hold down both "Back" and "Enter" keys until the digital display turns off, then release the keys, system will reset and the digital display will turn on again, all settings will be restored to factory default. Default settings are as follows: DMX Address Code: a001 DMX Address Quantity: SW1=0: ch04, SW1=1: ch03 PWM Resolution Mode: bt16 PWM Frequency: pf01 Gamma: ga1.5 Decoding Mode: dp1.1

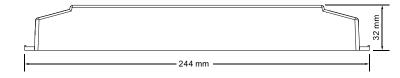
The data definitions for strobe channel are as follows:

{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





Note: When DMX channel is set as CH01 and 4 PWM output channels are wired to LED loads simultaneously, please make sure the operation current of the LED loads does not exceed 1100mA.

Installation



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