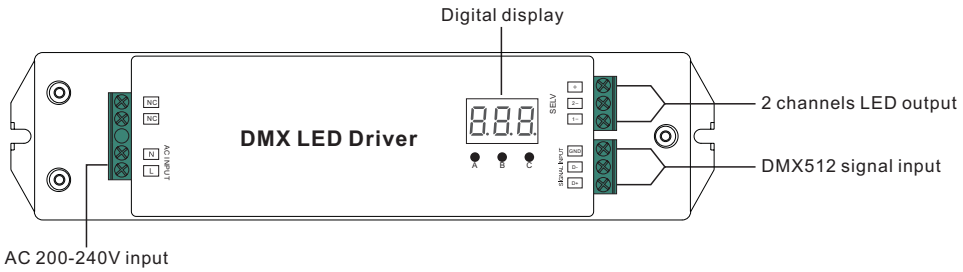
RDM Enabled 50W CV DMX LED Driver

70230058

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	DC Voltage	12V DC	24V DC
	Max. Current	Max. 4.16A/ch, ch1+ch2=4.16A	Max. 2.08A/ch, ch1+ch2=2.08A
	Rated Power	max. 50W	
Input	Voltage Range	200-240V AC	
	Frequency	50/60Hz	
	Power Factor (Typ.)	>0.93	
	Efficiency (Typ.)	86% @ 230VAC	
	Input Current (Typ.)	0.27A @ 230VAC	
	Inrush Current (Typ.)	COLD START Max. 2A at 230VAC	
Control	Dimming Interface	DMX512 (RDM enabled)	
	Dimming Range	0.1%-100%	
	Dimming Method	Pulse Width Modulation	
	Dimming Curve	Linear, Logarithmic	
Protection	Over Voltage	Yes, auto recovery after fault removed	
	Over Temperature	Yes, auto recovery after fault removed	
Environment	Working Temp.	-20℃ ~ +45℃	
	Max. Case Temp.	75℃ (Ta="45℃")	
	Working Humidity	10% ~ 95% RH non-condensing	
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH	
Safety&EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved	
	Withstand Voltage	I/P-O/P: 3.75KVAC	
	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	190100H, MIL-HDBK-217F @ 230VAC full load and 25℃ ambient temperature	
	Dimension	210*50*32mm (L*W*H)	

- Dimmable LED driver, max. output power 50W
- Standard DMX512 compliant control interface
- RDM function enabled to realize intercommunication between DMX master and decoder
- For example, DMX decoder's address can be assigned by DMX master console
- 2 PWM output channels, common anode, 12/24V constant voltage output
- Class Ⅱ power supply, full isolated plastic case
- High power factor and efficiency
- To control tunable white LED, single color LED lighting
- With digital display to show data directly, easily to set and show DMX address.
- DMX channel quantity from 1CH~2CH settable
- Output PWM frequency from 500HZ ~ 35K HZ settable.
- Output dimming curve gamma value from 0.1 ~ 9.9 settable.
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

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

Operation

To set desired DMX512 address through buttons,
button A is to set "hundreds" position,
button B is to set "tens" position,
button C is to set "unit" position.

Set DMX address (Factory default DMX address is 001)
Press and hold down any of the 3 buttons for over 3 seconds, digital display flashes to enter into address setting, then keep short pressing button A to set "hundreds" position, button B to set "tens" position, button C to set "units" position, then press and hold down any button for >3 seconds to confirm the setting.

DMX signal indicator ● : When DMX signal input is detected, the indicator on the display following after the digit of "hundreds" position of DMX address turns on red 001 .

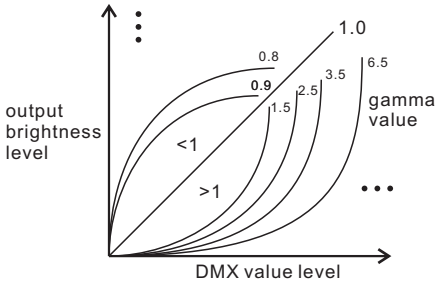
Choose DMX Channel (Factory default DMX channel is 4CH)

Press and hold down both buttons B+C simultaneously for over 3 seconds, CH digital display flashes, then keep short pressing button A to choose 1/2/3/4, which means total 1/2/3/4 channels. Press and hold down button A for >3 seconds to confirm the setting. Factory default is 4 DMX channels.

For example the DMX address is already set as 001.
1CH=1 DMX address for all the output channels, which all will be address 001.
2CH=2 DMX addresses, output 1 will be address 001, output 2 will be address 002.
3CH=3 DMX addresses, output 1 will be address 001, output 2 will be address 002, address 003 not used.
4CH=4 DMX addresses, output 1 will be address 001, output 2 will be address 002, address 003&004 not used.

Choose PWM frequency (Factory default PWM frequency is PF1 1KHz)
Press and hold down both buttons A+B simultaneously for over 3 seconds, digital display will show PF1, PF means output PWM frequency, the digit 1 will flash, which means frequency, then keep short pressing button C to select a frequency from 0-9 and A-J, which stand for following frequencies:
0=500Hz, 1=1KHz, 2=2KHz, ..., 9=9KHz, A=10KHz, B=12KHz, C=14KHz, D=16KHz, E=18KHz, F=20KHz, H=25KHz, J=35KHz.
Then press and hold down button C for >3 seconds to confirm the setting.

Choose Dimming Curve Gamma Value (Factory default dimming curve value is g1.0)
Press and hold down all buttons A+B+C simultaneously for over 3 seconds, digital display flashes g1.0, 1.0 means the dimming curve gamma value, the value is selectable from 0.1-9.9, then keep short pressing button B and button C to select corresponding digits, then press and hold down both buttons B+C for >3 seconds to confirm the setting.



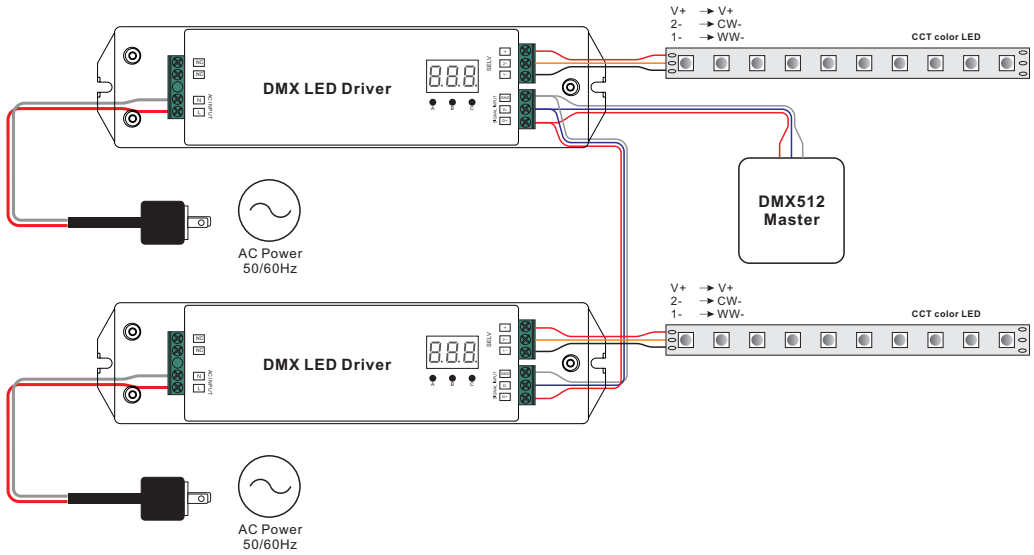
Restore to Factory Default Setting

Press and hold down both buttons A+C for over 3 seconds until the digital display turns off and then turns on again, all settings will be restored to factory default.
Default settings are as follows:
DMX Address: 001
DMX Address Quantity: 4CH
PWM Frequency: PF1
Gamma: g1.0

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

Wiring Diagram



Product Dimension