

SR-2108B-400-RGBW-CV

4 CH, DMX512 DECODER, RDM



Eigenschaften / Features

Standard DMX512 konforme Steuerschnittstelle

Unterstützt RDM-Funktion

4 PWM-Ausgangskanäle

DMX-Adresse manuell einstellbar

DMX-Kanalanzahl von 1CH-4CH einstellbar

PWM Frequenz 2kHz

Eingangsspannung: 12-48VDC

Ausgangstrom: 4x 5A

Ausgangsleistung: 4x 60-180W

Gammawert der Ausgangsdimmkurve von 0,1-9,9 einstellbar

Arbeitet mit Leistungsverstärkern, um die Ausgangsleistung unbegrenzt zu erweitern

IP20 Schutzgrad

Standard DMX512 compliant control interface

Supports RDM function

4 PWM output channels

DMX address manually settable

DMX channel quantity from 1CH-4CH settable

PWM frequency 2kHz

Input Voltage: 12-48VDC

Output Current: 4x 5A

Output Power: 4x 60-180W

Output dimming curve gamma value adjustable from 0.1—9.9

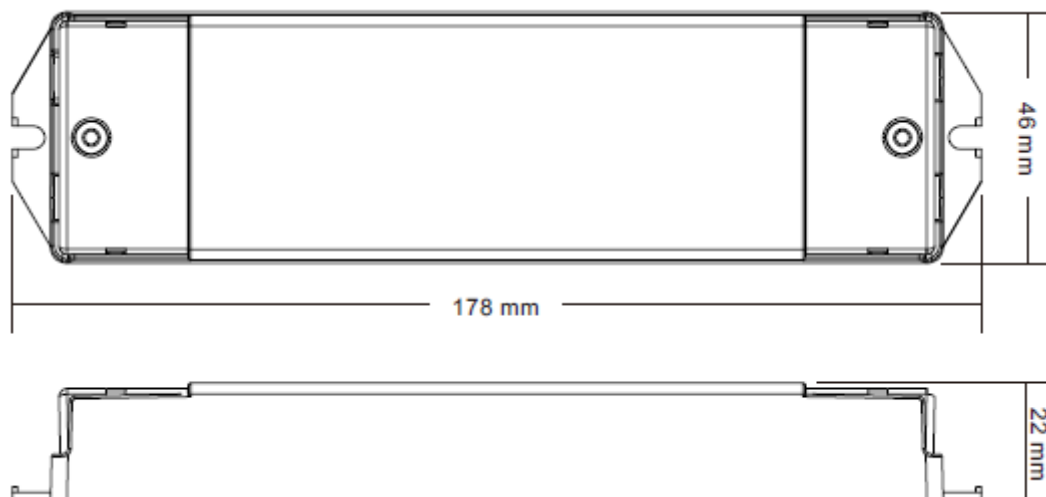
Works with power repeater to extend the output power indefinitely

IP20 protection rating

Technische Daten / Technical Data

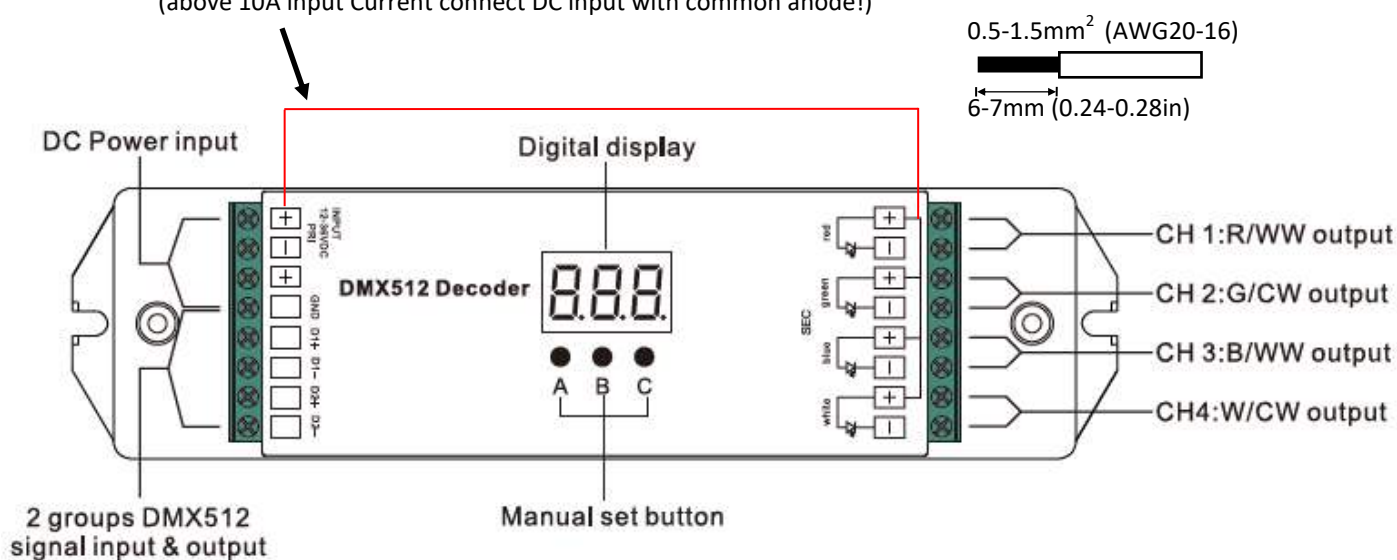
INPUT	Voltage Range	12VDC—48VDC
	Current	Max. 4x 5A@ 36V / 4x 2.5A@ 48V
OUTPUT	LED Channel	4 Channels
	DC Voltage	12-48VDC
	Output Current	Max. 4x 5A@ 36V / 4x 2.5A@ 48V
	Output Power	4x 60W– 180W@ 12-36V/ 4x 120W@ 48V
	Rated Power	max. 180W@ 12-36V / 120W@ 48V pro Channel
CONTROL	Dimming Interface	DMX512
	Dimming Range	0.1% - 100%
	Dimming Methode	PWM 2kHz (old firmware: default 1kHz)
	Dimming Curve	settable
ENVIRON- MENT	Working Temperature	-20°C - + 50°C
	Working Humidity	10%-80% RH non-condensing
	Storage Temperature	-20°C - +45°C
	Storage Humidity	10% - 80% RH
	IP Rating	IP20 (suitable for indoor LED lighting applications)
Others	Dimension	178x 46x 22mm, (old: 170x 53.4 x 28mm)
	Warranty	5 years

Abmessungen / Dimension

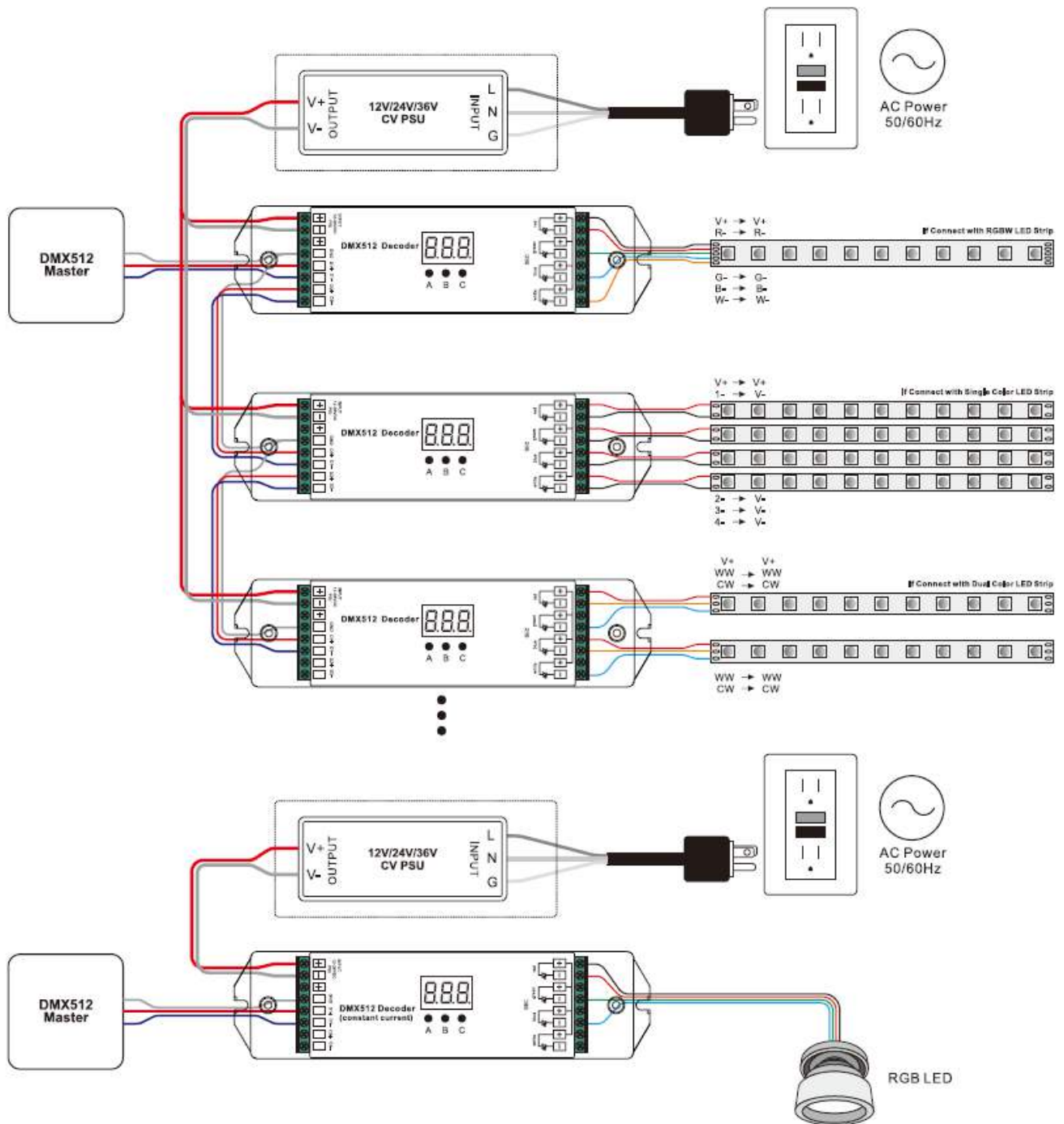


Funktion / Function

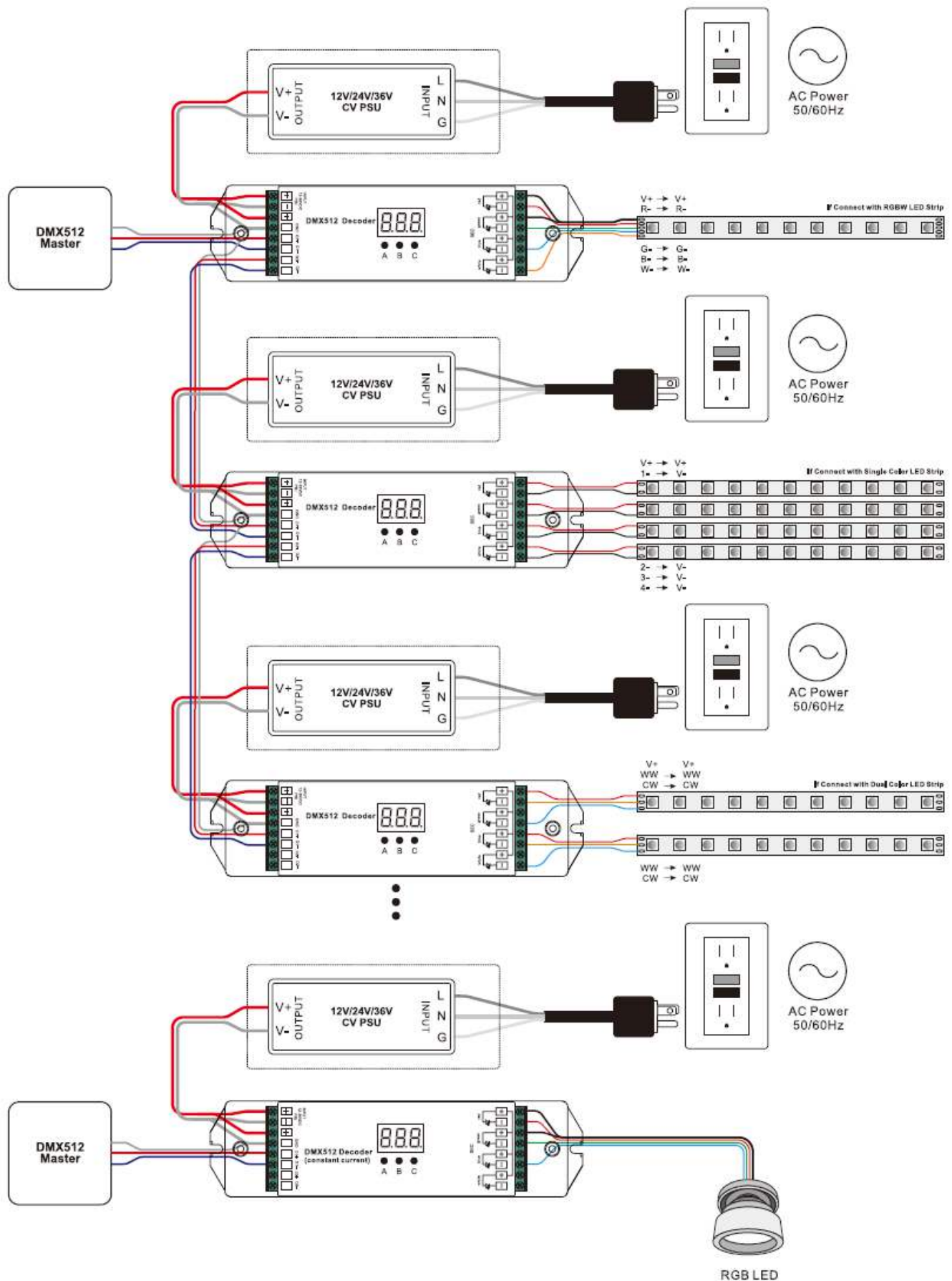
Ab 10A muss DC Input mit der Common Anode Verbunden werden!
(above 10A input Current connect DC input with common anode!)



Anschlussschema / Wiring Diagram



Anschlussschema / Wiring Diagram



Einstellung Decoder / Setup Decoder

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 0 (the digit 0 of "hundreds" position of DMX address) : When DMX signal input is detected, the digit 0 of "hundreds" position of DMX address will stay solid on. If there is no signal input, the digit 0 of "hundreds" position of DMX address will blink.



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&3 will be address 001, output 2&4 will be address 002

3CH=3 DMX addresses, output 1, 2 will be address 001, 002 respectively, output 3&4 will be address 003

4CH=4 DMX addresses, output 1, 2, 3, 4 will be address 001, 002, 003, 004 respectively



PWM frequency (2KHz)

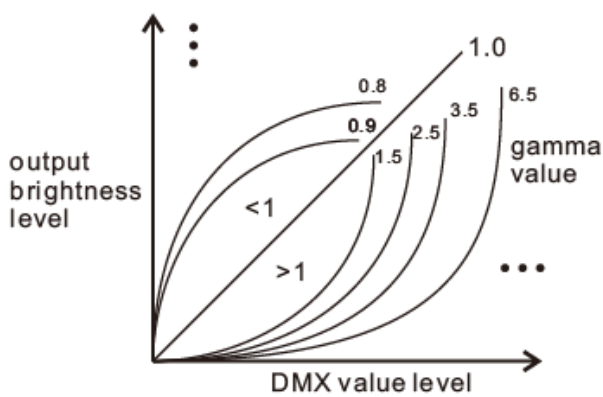
PWM frequency is fixed @ 2KHz and can not be changed.

Einstellung Decoder / Setup Decoder



Choose Dimming Curve Gamma Value (Factory default dimming curve value is g1.5)

Press and hold down all buttons A+B+C simultaneously for over 3 seconds, digital display flashes g1.5, 1.5 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.



Firmware OTA update

You will get this after power on the decoder, it means this decoder supports firmware OTA update function. This function can be used when there is a firmware update from the manufacturer, the update can be executed through a Windows computer and an USB to serial port converter, the converter will connect the computer and the decoder's hard wire DMX port. A software RS485-OTW on the computer will be used to push the firmware to the decoder.

Connect the computer and the decoder through the USB to serial port converter, if you need to update multiple decoders' firmware, connect the converter to first decoder's DMX port, then connect other decoders to the first decoder in daisy chain through the DMX port. Please do not power on the decoders.

Run the OTA tool RS485-OTW on the computer, select the correct communication port "USB-SERIAL", baudrate "250000", and data bit "9", use default settings for other configurations. Then click "file" button to select the new firmware from the computer, then click "Open Port", the firmware will be loaded. Then click "Download Firmware", the right side state column of the OTA tool will show "send link". Then power on the decoders before "wait erase" displaying on the state column, the digital display of the decoders will show **R.P. I**. Then "wait erase" will show on the state column, which means the updating starts. Then the OTA tool starts writing data to the decoders, the state column will show the progress, once writing data finishes, the digital display of the decoders will flash **R.P. I**, which means firmware updated successfully.

Einstellung Decoder / Setup Decoder

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: PF2

Gamma: g1.5

RDM Discovery Indication:

When using RDM to discover the device, the digital display will flash and the connected lights will also flash at the same frequency to indicate. Once the display stops flashing, the connected light also stops flashing.

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

Safety & Warnings

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