

# LinearLED

TYPE:

PROJECT:

QTY:

## SMT-24100-4C-A

DMX512 dimmable constant voltage, 100w LED driver



UL  
LISTED  
E507826

CE

RoHS  
COMPLIANT

### Features

- Output constant Voltage with slightly adjustable to solve the problem of line loss.
- With the RDM (Remote Device Management) function.
- With NFC function, read and write DMX512 address or adjust output voltage by mobile Easy NFC APP or special NFC device.
- Input Range: 100-277VAC
- Built-in active PFC function,  $PF \geq 0.98$
- Efficiency up to 88%
- Protections: short circuit/ over load/ over temperature
- Cooling by free air convection
- IP67 waterproof design.
- Dimming function: DMX512; DMX512 signal isolation
- NFC to fine tuning output voltage and set address
- 5 CH independent outputs: RGBCW.
- Different channels to be chosen, 1CH, 2CH, 3CH, 4CH or 5CH
- Insulation on DMX 512 dimming end
- Suitable for intelligent LED lighting for all over the world
- Dimming range: 0-100%
- Flicker-free,  $f \geq 4K$  Hz STROBOSCOPIC exemption
- Class 2

## SPECIFICATION SHEET



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## Specifications

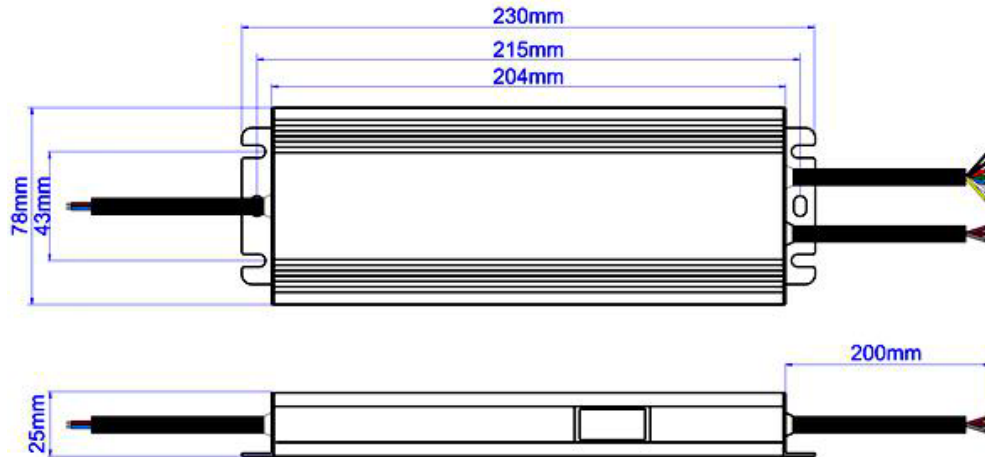
Output	DC Voltage	24VDC
	Voltage Accuracy	±5%
	Rated current	4.17Amp total
	Rated power	100W
	Voltage Regulation	±0.5%
	Load Regulation	±1%
Input	Voltage Range	100-277 VAC
	Frequency Range	47~63HZ
	Power Factor (Typ.)	PF≥0.99/230VAC (Full loading)
	Full Load Efficiency (Typ.)	>89%@230VAC
	AC Current (Typ.)	1.3A
	Leakage current	<0.27mA/110VAC; <0.25mA/277VAC
Protection	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.
	Over Loading	≤120% shut down o/p voltage, re-power on to recover
	Over temperature	100°C±10°C shut down o/p voltage, automatically recover after cooling.
Environment	Working TEMP.	-40~+60°C
	Working Humidity	20~90%RH, non-condensing
	Storage TEM. Humidity	-40~+80°C, 10~95%RH
	TEMP. coefficient	±0.03%/°C (0~50°C)
	Vibration	10~500Hz, 5G 10min./1 cycle, period for 60min. each along X, Y, Z axes
Safety & EMC	Safety standards	UL8750+UL1310
	Withstand voltage	I/P-O/P:3.75KVAC
	Isolation resistance	I/P-O/P:100MΩ/500VDC/25°C/70%RH
	EMC EMISSION	FCC Part 15 B
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,11, Alight industry level
Others	Weight	0.90 Kg
	Size	230*78*25mm (L*W*H)
Notes	<p>1. All parameters NOT specially mentioned are measured at 110VAC, 277VAC input, Rated load and 25°C of ambient temperature.</p> <p>2. Tolerance: includes set us tolerance, line regulation and load regulation.</p>	

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Mechanical Specifications



※Input Rubber cable 3\*1.0mm<sup>2</sup>(VDE approval), the Y/G cable connect with (FG) , Brown with AC (L), Blue with AC(N) (EU)

Input SJOW Rubber cable 3\*18AWG (UL approval), the green cable connect with (FG) ,Black with AC (L), White with AC(N) (US)

※Dimming cable Purple (D+), Brown (D-) and Gray (GND) connect to DMX dimmer / system.

※Output cable to be connected to LED Light;

※Output cable to be connected to LED Light;

**DIM (DW) dimming:** Rubber cable

Black is output (V+) Positive, White is output (V-) negative

**CCT (TW) dimming:** 1015 electronic cable , (V+) 16AWG; (V-) 18AWG

Black is output (V+) Positive, White (CW-) and Yellow (WW-) are output (V-) negative

**RGB dimming:** 1015 electronic cable , (V+) 16AWG; (V-) 18AWG

Black is output (V+) Positive, Red (R-), Green (G-) and Blue (B-) are output (V-) negative

**RGBW dimming:** 1015 electronic cable , (V+) 16AWG; (V-) 18AWG

Black is output (V+) Positive, Red (R-), Green (G-) ,Blue (B-) , White (W-) are output (V-) negative

**RGB+CCT dimming:** 1015 electronic cable , (V+) 16AWG; (V-) 18AWG

Black is output (V+) Positive, Red (R-), Green (G-) ,Blue (B-) , White (CW-) and Yellow (WW-) are output (V-) negative.;

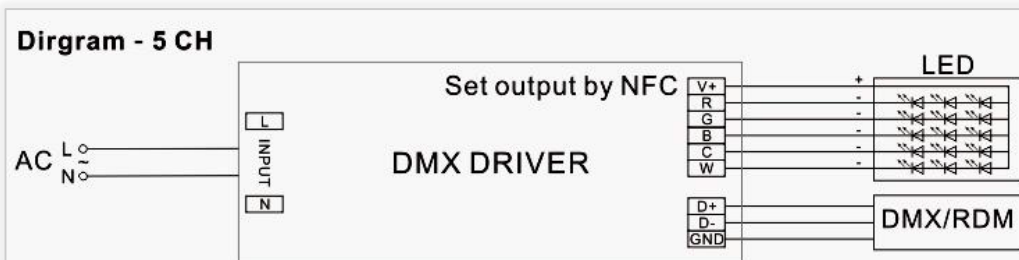
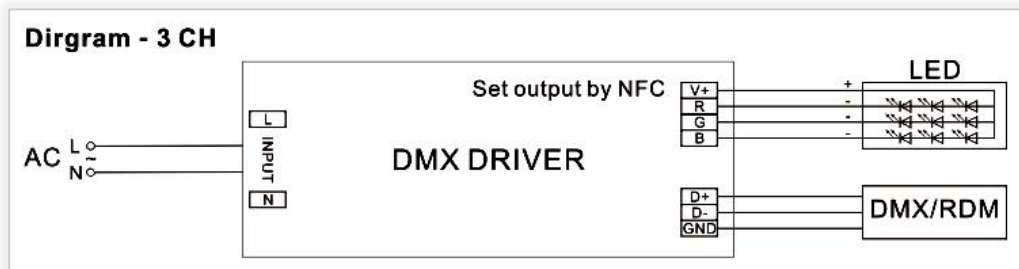
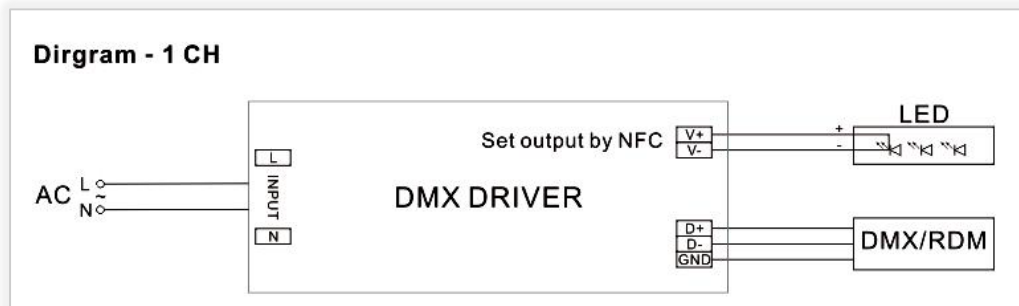
※Please make sure you connect these correctly ,otherwise your product will not work correctly and could be damaged.

**Note: there is external antenna at output side. Don't disassemble!**



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Connecting Diagram



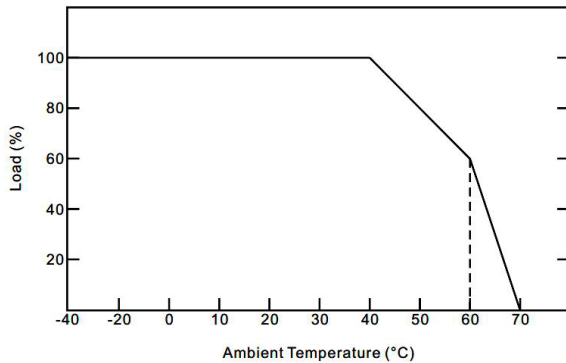
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## Derating Curve



※To extend their life, please refer to the Derating Curve and derate according to the temperature.

## DMX512 address setting Operation

※The default address for SC DMX driver is 001.

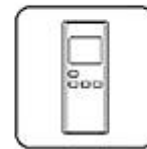
※Address settings device



RDM



EasyNFC app



NFC Handheld devices

### ※Address settings:

① RDM setting address:

Set the address by the RDM device. For detailed operation, please refer to RDM device instruction manual.

② NFC setting address:

The DMX address can be read and written by a mobile with EasyNFC APP or NFC handheld device (NFC read & write device:

NFC-RW) by close to the NFC signal area of the DMX512 driver.

## Adjust output voltage Operation

※Adjust output voltage slightly for DMX512 driver

1) The driver output voltage can be read and written by a mobile with EasyNFC APP or NFC handheld device (NFC read & write device: NFC-RW) by close to the NFC signal area of the DMX512 driver.

2) Voltage range: level 1~10, each level is 0.2V. The default output voltage level is 5. Such as SMT-24100-XC-A, default is level 5 corresponding to 24V. By adjusting output voltage slightly, you could get 23.2v to 25V freely.