4 Channel Constant Current Power Repeater

Model No.: EC4(150-500mA) / EC4(350-1200mA)

4 Channel/PWM signal input/Constant current output/Multiple current/3KV optoelectronic isolation



Features

C€ RoHS emc LVD

- 4 channel 24-48V constant current power repeater.
- . DC to DC constant current output, multiple output current settings.
- To receive PWM signal control.
- Power repeater in parallel to expand output unlimitedly.
- Apply to single color, dual color, RGB or RGBW constant current LED lamps.

Technical Parameters

Input and Outpu	ut
Input voltage	24-48VDC
Input signal	24-48V PWM, 4CH
Output voltage	4 x (3-45)VDC
Output current	4CH,150-500mA or 350-1200mA/CH
Output power	4 x (0.45-22.5)W (150-500mA) 4 x (1.05-54)W (350-1200mA)
Output type	Constant current

Warranty and Protection					
Warranty	5 years				
Protection	Reverse Polarity Short circuit				

Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Certification	CE,EMC,LVD
Environment	
Operation temperature	Ta: -30 °C ~ +55 °C
Case temperature (Max.)	T c:+85°C

LED Current Selection

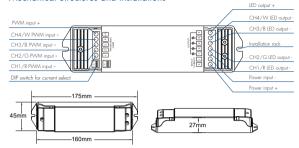
Note: Please select the correct current through the DIP switch on the PCB board when the power is off.

(Output Power/CH	0.45-6.75W	0.6-9W	0.75-11.25W	0.9-13.5W	1.05-15.75W	1.2-18W	1.35-20.25W	1.5-22.5W	
(150-500mA)	Output Voltage	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	ON OFF
EC4	Output Current	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA	
DIP S	witch	999	998	989	888	899	898	889	888	

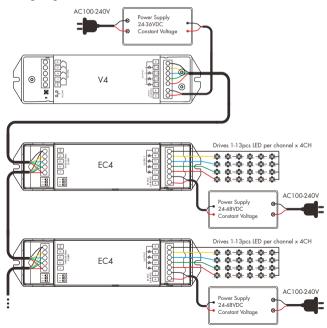
IP rating

	Output Power/ CH	U.45-6.75W	0.6-9W	U.75-11.25W	0.9-13.5W	1.05-15.75W	1.2-18W	1.35-20.25W	1.5-22.5W	
DIPS	witch		998	989	800	899	888	009	000	
	Output Current	350mA	500mA	600mA	700mA	800mA	900mA	1050mA	1200mA	_ [
EC4 (350-1200mA)	Output Voltage	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	ON OFF
	Output Power/CH	1.05-15.75W	1.5-22.5W	1.8-27W	2.1-31.5W	2.4-36W	2.7-40.5W	3.15-47.25W	3.6-54W	

Mechanical Structures and Installations



Wiring Diagram



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- The LED quantity at each channel can be different, the power repeater could auto check and output a proper voltage to each channel according to its LED quantities.
- 2. The power repeater works on buck mode, the voltage of power supply should be greater than the total voltage of the seried LEDs.

Safety & Warnings

- 1. The product shall be installed and serviced by a qualified person.
- 2. This product is non-waterproof. Please avoid the sun and rain.
- 3. Good heat dissipation will prolong the working life of the controller, Please ensure good ventilation.
- 4. Please check if the output voltage of any power supplies used comply with the working voltage of the product.
- 5. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
- 6. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

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