

# AC Triac Dimmer

### SKU: 6389

1 Channel/RDM/Stand-alone function/Leading edge or trailing edge/Numeric display/Din rail

# **Features**

- AC phase-cut mosfet dimmer with DMX512 function, one channel output.
- Comply with the DMX512 standard protocols.
- Digital numeric display, set DMX decode star t address by bottons.
- RDM function can realize intercommunication between DMX master and decoder.
- · Reverse-phase dimming or forward-phase dimming selectable.
- Minimum brightness set from 1% to 40%.
- Stand-alone dynamic mode and dimmer mode selectable,
   which be controlled by buttons with built-in programs, instead of DMX signal.
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.
- · Over-heat protection, recover automatically .

# **Technical Parameters**

C C∈ RoHS emc LVD

Input and Output	
Input volta g e	100-240V AC
Output voltage	100-240V AC
O utput current	1CH, 6A
Output power	600-1440W

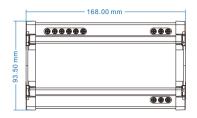
Safety and EMC	
EMC standard (EMC)	EN 55015:2013 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
Safety standard(LVD)	EN 61347-2-11:2002 EN 61347-1:2015 EN 62493:2015
Certification	CE,EMC,LVD

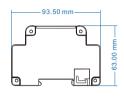
Dimming data		
Input signal	DMX512	
Dimminglevel	256 levels	
Dimmingrange	0 -100 %	
Environment		
Operation temperature	Ta:-30°C~+55°C	
Case temperature (Max.)	Tc: +85°C	
IPrating	IP20	
Warranty and Protection		
Warra nty	3 ye a rs	
Prote c tion	O ve r-he a t	

# Compatible Load Types

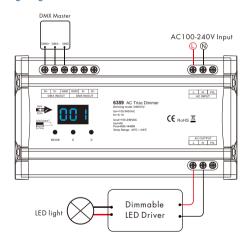
Load Type	Maximum Load	Remarks
Dimmable LED lamps	1000W @ 220V	Due to variety of LED lamp designs, maximum number of LED lamps
	500W @ 110V	is further dependent on power factor result when connected to dimmer .
Triac Dimmable	1000W @ 220V	Maximum permitted number of drivers is 1000W divided by driver nameplate
LED drivers	500W @ 110V	power rating, and make sure the surge current is no more than 2 times 65A.
Incandescent lighting, HV Halogen lamps	1500W @ 220V 750W @ 110V	

# Mechanical Structures and Installations





# Wiring Diagram



#### Vote-

- 1. When calculating the maximum number of load lamps or drivers, the input power or input current parameters of a single lamp or driver must be used, the output power parameters can not be used. In addition, the maximum surge current of the dimmer is 65A, the sum of surge current of multiple dimmable LED drivers should not exceed 2 times, other wise, the product will be overloaded and damaged.
- An DMX signal amplifier is needed when more than 32 decoders are connected, or use overlong signal line, signal amplification should not be more than 5 times continuously.
- 3. If the recoil ef fect occurs because of longer signal line or bad line quality  $\,$ , please tr y to connect 0.25W 90-120 $\Omega$  terminal resistor at the end of each DMX signal line.



## Caution:

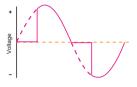
Please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this controller will be damaged.

## Operation

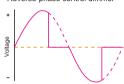
#### System parameter setting

- Long press M and ◀ key for 2s, prepare for setup system parameter; control method, minimum brightness cur ve, automatic blank screen. shor t press M key to switch three item.
- Control method: short press ◀ or ▶ key to switch for ward-phase("C-F") or reverse-phase("C-F").

### Forward-phase control dimmer



# Reverse-phase control dimmer



- Minimum brightness short press ◀ or ▶ key to set minimum brightness, from 1% to 40%("b01" to b40"). You need set suitable minimum brightness to avoid flick.
- Automatic blank screen: short press ◀ or ▶ key to switch enable("bon") or disable("boF") automatic blank screen.
- Long press M key for 2s or timeout 10s, quit system parameter setting.

#### DMX mode

- Short press M key, when display 001~999, enter DMX mode.
- If there is a DMX signal input, will enter DMX mode automatically.
- DMX Dimming: Each SK2 DMX decoder occupy 1 DMX address when connecting the DMX console.

#### DMX mode $(001 \sim 999)$

 $(L-1 \sim L-8)$ 

# Stand-alone dimmer mode

- Short press M key, when display L-1~L-8, enter stand-alone dimmer mode.
- · Each dimmer mode can adjust brightness independently.

Long press M key for 2s, prepare for setup brightness. Press 

or 

key to setup brightness value(100-1FF).

Long press M key for 2s, or timeout 10s, quit setting.



· Enter stand-alone dimmer mode only when DMX signal is disconnected or lost.

#### Stand-alone dynamic mode

- Short press M key, when display P-1~P-2. enter stand-alone dynamic mode.
- number(P-1~P-2)
- · Each mode can adjust speed and brightness.

Long press M key for 2s, prepare for setup mode speed, brightness.

Short press M key to switch two item.

Press 

or ▶ key to setup value of each item.

Mode speed: 1-10 level speed (S-1, S-9, S-F).

Mode brightness: 1-10 level brightness(b-1, b-9, b-F).

Long press M key for 2s, or timeout 10s, quit setting.



Stand-alone dynamic mode (P-1~P-2)





(8 level) (10 level, 100%)

· Enter stand-alone dynamic mode only when DMX signal is disconnected or lost.

## Dynamic mode list

	No.	. Name	
1	P-1	0 %, 5 0 %, 1 0 0 % light change in sequence	
Ì	P-2	light fade in and fade out	

# Restore factory default parameter

- Long p ress a nd ▶ key for 2 s, restore factory default parameter, display "RES".
- Factory default parameter: DMX decode mode, DMX decode start address is 1, rerverse-phase control. 10% minimum brightness, dimmer moden umber is 1, dynamic moden umber is 1, disable a utomatic blank screen.

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