# OLED AC Triac Dimmer

# Model No.: SK1

Knob dimming/DMX RDM decoder/1-10V control/RF control/Leading or trailing edge/Current detect/OLED display

### Features

- AC phase-cut mosfet dimmer, one channel output, Max. 6A.
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights.
- 256 levels 0-100% dimming smoothly without any flash.
- Four dimming mode: Knob, DMX512, 1-10V, RF 2.4GHz.
- Rotate knob to change brightness, support push, push twice and long push operation.
- DMX512 decoder with RDM function.
- Compatible with active or passive 0-10V, 1-10V dimmer.
- Stand-alone dynamic change mode, speed and brightness adjustable.
- Compatibility with RF 2.4G single zone or multiple zone dimming remote control, 15m remote distance.
- Trailing edge dimming or Leading edge dimming selectable.
- Minimum brightness set from 5% to 40%.
- AC output current and temperature detection.
- Over-heat / Over-load protection, recover automatically.

# **Technical Parameters**

C ∈ RoHS emc LVD

Input and Output		
Input voltage	100-240VAC	
Output voltage	100-240VAC	
Output current	1CH, 6A	
Output power	600-1440W	

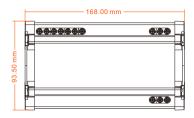
Safety and EMC	
EMC standard (EMC)	EN 55015:2013 EN 61547:2009 EN 61000-3-2:2014 EN 61000-3-3:2013
Safety standard(LVD)	EN 61347-2-11:2002 EN 61347-1:2015 EN 62493:2015
Certification	CE,EMC,IVD

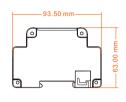
Dimming data		
Input signal	Knob/DMX512/1-10V/RF	
Dimming level	256 levels	
Dimming range	0-100%	
Environment		
Operation temperature	Ta:-30°C ~ +55°C	
Case temperature (Max.)	Tc:+85°C	
IP rating	IP20	
Warranty and Protection		
Warranty	5 years	
Protection	Over-heat Over-load	

# Compatible Load Types

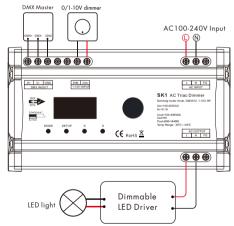
Load Type	Maximum Load	Remarks
Dimmable LED lamps 1000W @ 220V 500W @ 110V	1000W @ 220V	Due to variety of LED lamp designs, maximum number of LED lamps
	is further dependent on power factor result when connected to dimmer.	
Triac Dimmable	1000W @ 220V	Maximum permitted number of drivers is 1000W divided by driver nameplate
LED drivers 500VV @ 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



#### Note

- 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 drimmer is 65A, the sum of surge current of multiple drimmable LED drivers should not exceed 2 times, otherwise, 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 effect occurs because of longer signal line or bad line quality, please try to connect 0.25W  $90-120\Omega$  terminal resistor at the end of each DMX signal line.
- 4. 1-10V dimming compliant with 0-10V, 1-10V, 10V PWVM, RX (4 in 1).

### Operation

Short press MODE key, switch between Manual dimmer mode, DMX decoder mode, 1-10V dimmer mode and dynamic light change mode.

Short press SETUP key, enter parameter setting state, and switch between multiple parameter item.

press < or > key for parameter adjustment.

long press SETUP key or wait 30s to guit parameter setting state.

Long press MODE & > key for 2s or longer, enter RF remote match or delete state.

Long press < & > key for 2s, restore factory default parameter.

The 4 key operation have the same function as the knob.

# System parameter setting



Short press the knob to switch between work mode, phase-cut, minimum brightness setting and exit item

Select leading edge dimmer or trailing edge dimmer according to dimmable LED light or driver.

# Work mode:

Manual dimmer DMX DMX512 decoder 1-10V dimmer

Dynamic light change mode

#### Phase-cut mode

Leading edge dimmer Trail Trailing edge dimmer

# Min output brightness:

Ranae: 5~40%

#### Manual dimmer mode



light switch:

light is on OFF light is off

# Output brightness:

Ranae: 5~100%

#### DMX decoder mode



DMX decode start address: Range: 001~999

DMX decode data: Range: 000~255

Output brightness: Range: 0~100%

Double click or long press 2s the knob, enter parameter setting state.

Rotate the knob for parameter value adjustment of each item.

Set suitable minimum brightness to avoid flick.







Short press the knob to turn on or turn off the light. Rotate the knob for brightness adjustment.

Short press the knob to enter or guit DMX start address setting state. Rotate the knob for DMX start address adjustment.

If there is a DMX signal input, will enter DMX decoder mode automatically.

### 1-10V dimmer mode



0/1-10V dimming input:

Range: 0.0V~10.0V Output brightness:

Range: 0~100%

# Dynamic light change mode



Short press the knob to enter dynamic light change mode setting state, or change between mode no, speed and brightness item. Rotate the knob for value adjustment of each item.

### Dynamic light change mode no:

1 Fade 2 Jump 3 Flash

Mode speed: Range: 1-10 level

Mode brightness: Range: 10~100%

### RF dimmer mode



If the RF remote is matched and RF signal is received, will enter RF dimmer mode automatically.

Match: Long press the knob for 10s. OLED display (1).

within 5s, press on/off key or zone key of the remote, display (2), match is successful, Delete: Long press the knob for 15s, until OLED display (3), delete all matched RF remote.





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