#### **WARNING AND CAUTION**

This manual contains important information about the installation and operation of Dimmer HT 3000W 2-outputs manual.

Please pay close attention to the important safety information shown throughout this instruction manual. Before using it for the first time, please read the instructions carefully, and keep them for further reference.





#### **WARNINGS - SHOCK HAZARD**

- Hazard voltage: May result in serious injury or death. Before installation process, turn circuit breaker to OFF position or remove fuse(s) and test that power is OFF.
- Never wire any electrical device with power turned ON.
- Installation must be carried out by a licensed and authorized person.
- A faulty device should be returned to the distributor.

#### **TECHNICAL SPECIFICATIONS**

Input Power	180–264Vac (50/60Hz) Single Phase		
Rated Power	3000W		
Input Current	17A Max		
Safety	Anti 6KV Lightning Surge Dim to 0%, Dry Switch-Contact		
Performance	Harmonic Current Inhibition		
Optimal Brightness Level	0–100%		
Five Protections	① OVP (Over Voltage Protection)		
	② UVP (Under Voltage Protection)		
	③ OPP (Over Power Protection)		
	④ OTP (Over Temperature Protection)		
	⑤ OCP (Over Current Protection / Short Circuit Protection)		
Permitted Ambient Temperature	-20°C ~ 50°C		
Storage Temperature	-30°C ~ 80°C		
Waterproof Grade	IP54		
External Control	0–10V Signal		
Conformity with Standard	EN 60669-2-1		



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### **DIMENSION AND USER INTERFACE**



No	Name	Description		
1	LCD	Display information of this dimmer		
2	Indicator Light	Indicator light for Brightness / Power / Voltage / Current / Temperature (Select by pressing Enter)		
3	Manual Control	Press the button to manually control the brightness using the Rotary Switch		
4	External Control	Press the button to enable external 0–10V signal control		
5	Rotary Switch (Enter)	Rotate to change brightness; Enter for selection		
6	Dry-contact Port	- <b>REL0</b> : Works with light (Port NO/NC contact for light ON/OFF) - <b>REL1</b> : Works with alarm (Port NC/NO contact for OVP, UVP, OTP, OCP, OPP alarms) - <b>REL2</b> : Connects to drinker system, starting 30s in advance		
7	0–10V Port	0–10V signal input for external control		
8	AC Input Terminal	Connect L (Live Wire), N (Neutral Wire), and GND (Ground Wire)		
9	AC Output Terminal	Connect to the lights		



#### **MINIMUM BRIGHTNESS SETTING**

If 1% brightness of the lamp cannot meet production needs, the user can adjust the optimal minimum brightness. The operation method is as follows:

- Step 1: Adjust the manual brightness to 1%
- Step 2: Press and hold the "Manual Control" button for 5s until the indicator light of "External Control" and "Manual Control" ON together, and then release it
- Step 3: Rotate the "Enter" knob to adjust the optimal brightness. Then press the "Enter" button to complete the setup.

Remarks: The minimum brightness adjustment coefficient range is 20–1520, the larger the number, the brighter the brightness at 1%.

#### SITUATION FOR ALARM OCCUR

When an error occurs, an alarm code will appear on the dimmer LCD display. The dimmer protection function is activated and the light turns off
Once the error is resolved, the dimmers and lights can be restarted within 1 min, or by manually turning the AC power on/off.

Alarm Code	Fault Cause	Shutdown Load (Output Channels)	Alarm Indication	Action
Er01	Power supply > 267Vac	YES	Green Voltage light ON and	Make sure the voltage is within the range of
Er02	Power supply < 83Vac	YES	Blinking	180–264Vac
Er03	Short-circuit to load output terminal or current > 17A	YES	Green Current light ON and Blinking	Check if the dimmer output is overloaded or
Er04	Load exceeds >3150W	YES	Green Power light ON and Blinking	short-circuited
Er05	Temperature inside controller > 110°C or excessive ambient temperature	YES	Green Temperature light ON and Blinking	Ensure proper cooling. Alternatively, reduce the load connected to the dimmer output



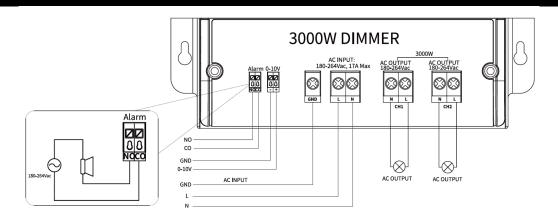
### **CABLE REFERENCE**

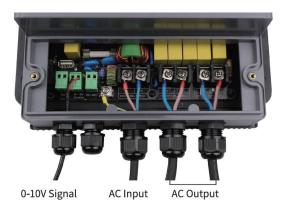
Cable Size	Max. AMP	Suggested Power Loaded
2 × 0.75 mm²	3.7 A	@220V, 640 W
2 × 1.0 mm²	5.9 A	@220V, 1040 W
2 × 1.5 mm²	9.4 A	@220V, 1640 W

### **DIMMER CAPACITY LOAD REFERENCE**

Wattage Max	≤ 15W LED	≤ 20W LED	≤ 25W LED	Other Brand Lights
Load	Bulb	Tube Light	Tube Light	(Leading Edge)
@ 220Vac	2400W max	2550W max	2700W max	1800W max

## **DIMMER WIRING DIAGRAM**



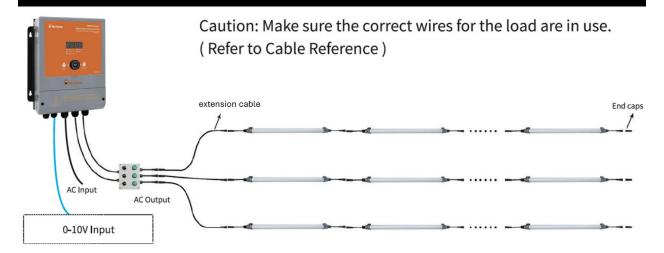




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#### **LIGHTING DIAGRAM**



#### Installation Notes 1

- LED dimmers should be installed exposed to allow for heat dissipation.
- If the LED dimmer is installed in a closed distribution box, please install a wind control system for heat dissipation
- To avoid direct sunlight, it is not recommended to install the distribution box outdoors. If it is necessary, build a canopy.
- It is recommended that the ambient temperature of the dimmer does not exceed 40 degrees.

