

## H-SERIES SMART FILM POWER CONTROL

SMART-HEALTHY-GREEN



Elevate your smart glass experience with the H-Series Smart Film and Glass Power Controller.

This advanced controller seamlessly switches smart film from clear to opaque using either a standard switch or a wireless remote.

Designed for reliability, it features long-lasting switch output along with built-in protection against over-voltage, overload, and overcurrent conditions.

Compact and lightweight, the H Series is easy to install and integrates effortlessly into a variety of applications across multiple industries.

It's the ideal solution for enhancing the intelligence and functionality of your smart glass systems.



# TECHNICAL SPECIFICATIONS



## General Specifications

Type	Data
Input Voltage	230 VAC / 120 VAC
Output Voltage	48VAC / 60 VAC
Frequency	47-63 Hz
Output Current	100W / 1.6A
Working Temperatures	-20°C (-4 °F)- 50°C (122 °F)
Storage Temperatures	-40°C (-40 °F)- 180°C (176 °F)
Secondary Winding	Single
Controller Type	Wireless
Protections	Overload, Over Voltage, Short Circuit
Switch Voltage	9V
Material	100% copper
Efficiency	98%



## Remote Control

Type	Data
Remote Control Frequency	433.92 mHz
Remote Control Battery	Type 23A (12VDC)
Remote Control Distance	25 meter / 82 feet
Remote Control Size	120mmx46mmx14mm (4.7"x1.8"x0.6")
Function	On / Off

# TECHNICAL SPECIFICATIONS



## Safety Isolation Transformer Types

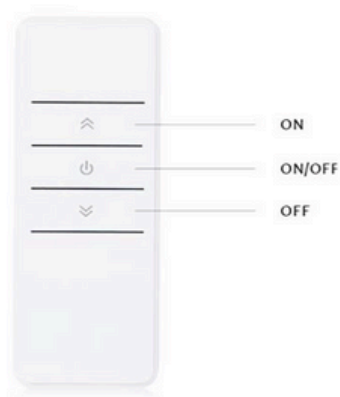


Type	Power	Smart Film/Glass Area	Size L*W*H	Weight
H15	15W	2 Sq.m (21 Sq.f)	127*75*25mm (5*3*1")	0.35Kg (2.6 lb)
H30	30W	4 Sq.m (44 Sq.f)	150*88*30mm (6*3.5*1.5")	0.8Kg (2.6 lb)
H50	50W	6 Sq.m (65 Sq.f)	179*110*46mm (7*4.5*2")	1.2Kg (2.6 lb)
H100	100W	12 Sq.m (129 Sq.f)	179*110*46mm (7*4.5*2")	1.6Kg (3.7 lb)

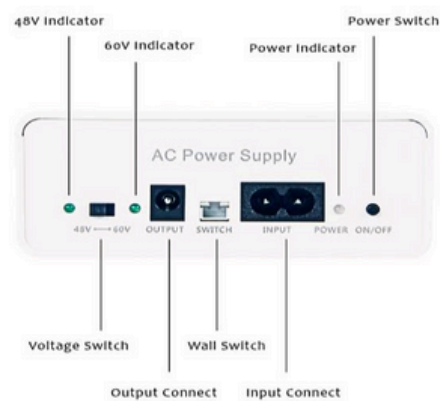
Type	Data
Input connection	screw type terminals, connection capacity: 2mm <sup>2</sup> AWG 14
Output connection	screw type terminals, connection capacity: 0.2 mm <sup>2</sup> AWG 23
Positioning	Horizontal or Vertical
Operating Altitude	3,000m / 9,850 ft

# Wiring Diagram

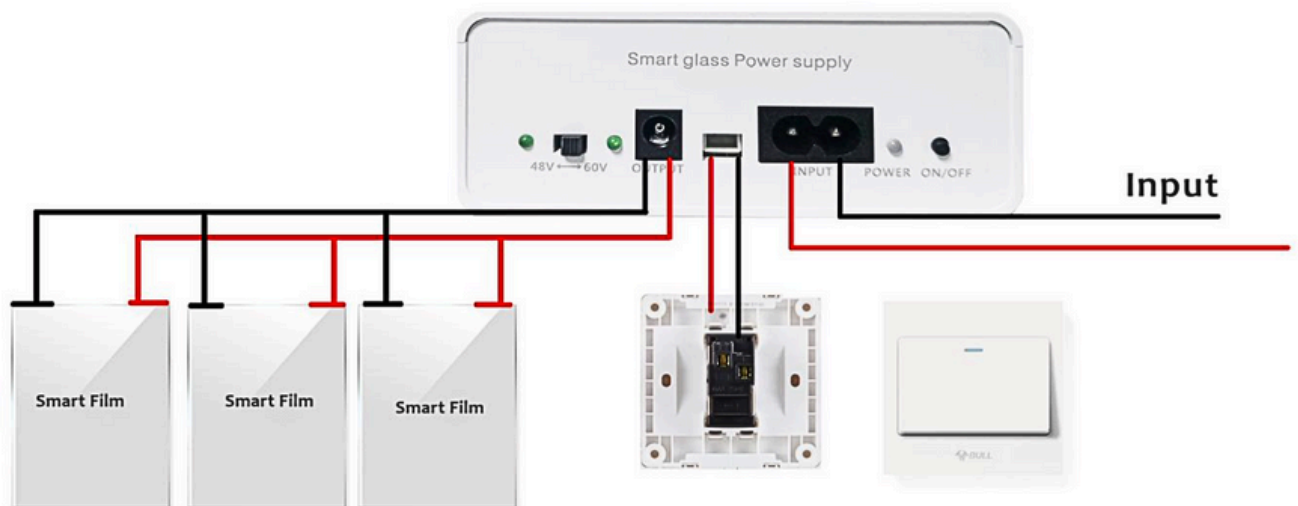
## Controller



## Terminal



## wires dirgram



## Power Unit Package Include

- 1pcs Power Unit H-Series
- 1pcs Remote controller
- 1pcs Input cable
- 1pcs Output 2-Wires cable
- 1pcs Wall Switch 2- Wires cable



## Environment

CE, EMC, EN62479, IP21, Protective Treatment Tropical Coating TC, Over voltage Category Class I conforming to VDE 0106-1, Dielectric Strength 2,000 V between winding and ground. Electrical Insulation Class B.

# Remote Control Pairing

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## Remote Control Pairing Instructions

Follow the steps below to pair the remote control with the Power Control unit:

**Step 1:** Check that the remote control battery has sufficient power. Replace it if necessary.

**Step 2:** Plug the Power Control unit into a power outlet. Ensure it is switched on and the indicator light is illuminated.

**Step 3:** Point the remote control directly at the Power Control unit.

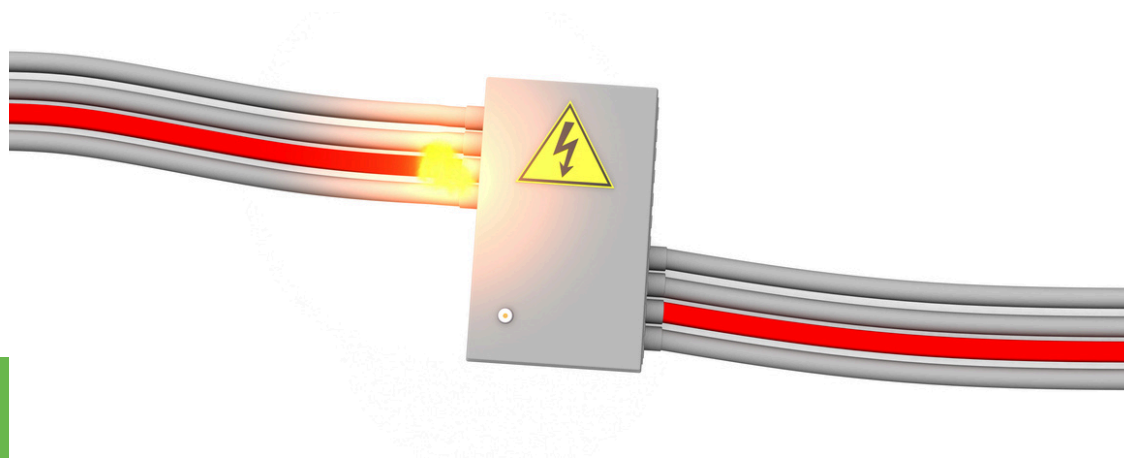
**Step 4:** Press and hold the Upper and Middle buttons on the remote simultaneously for approximately 3 seconds.

**Step 5:** Release the buttons as soon as the smart film switches to transparent.

This indicates the pairing process was completed successfully.

# Short Circuit Protection

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**In the event of a short circuit, the Power Control unit is designed to respond immediately for safety:**

- The Power LED indicator will change from green to red, and power output to the smart film or glass will be automatically cut off.
- This protective response prevents any damage to the power unit.
- There is no fuse to replace. The system uses an integrated electronic safety mechanism specifically designed to guard against short circuits.

**Once the short circuit issue has been resolved:**

- Simply press the power button on the control unit or use the remote control to turn the system back on.
- The system will resume normal operation.