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1, Electrical Functions

1.1 Input Characteristics:

1.1.1 Rated Voltage

AC Voltage: 200VAC-240VAC

1.1.2 Input Voltage Range:

AC Voltage: 176VAC-264VAC

1.1.3 Rated Frequency

Rated Frequency: 50Hz/60Hz.

1.1.4 AC Voltage Frequency Range:

47Hz-63Hz

1.1.5 Efficiency

83%(Typical) when input voltage is 220VAC with rated load.

Efficiency is the testing result of surrounding temperature above 25 degree with stable temperature of power supply

1.1.6 Power Factor

0.7 (Typical) when input voltage is 220VAC with biggest load.

1.1.7 Inrush Current

When input voltage is 220VAC/50Hz and the load is rated load, the inrush current after power on should be less than 50A.

1.1.8 Max AC input current

When input voltage is 220VAC and the load is rated load, the Max AC input current should be less than 0.9A.

1.1.9 Dimming Function

0-10Vdc or 1-10Vdc

1.2 Output Characteristics:

1.2.1 Output Channels

Single channel

1.2.2 Output Voltage and Current

Single Channel Output Voltage: Constant Voltage 12VDC.

Single Channel Output Current: DC 10A+ 10%.

1.2.3 Total Output Power

Max Power: 120W

1.2.4 Working Mode

Continuous Work

1.2.5 Start-up Time

When the input voltage is 220V, the turn-on delay time won’t be over 1.5 seconds.

1.3 Protection Functions:

1.3.1 Over-temperature protection

When the temperature inside the power supply rise to 100-130 degree, the over-temperature protection starts until the temperature falls down to the normal range.

2, Surroundings

2.1 Temperature:

2.1.1 Working Temperature

Ta: -20℃～ 50℃

Tc: max 85℃

2.1.2 Storage Temperature

-40℃ ～ 90℃

2.2 Humidity

2.2.1 Working Humidity

5％ ～ 100% RH

2.2.2 Storage Humidity

5％ ～ 100% RH

3, Safety Testing

3.1 High-voltage Insulation test

3.1.1 Input Circuit to Output Circuit: 3k Vac, 10mA, 1 minute.

3.1.2 Input Circuit to the ground: 1.5k Vac, 10mA, 1 minute

3.2 Leakage Current

3.2.1 L Line to the ground: 220Vac, 1mA

3.2.2 N Line to the ground: 220Vac, 1mA

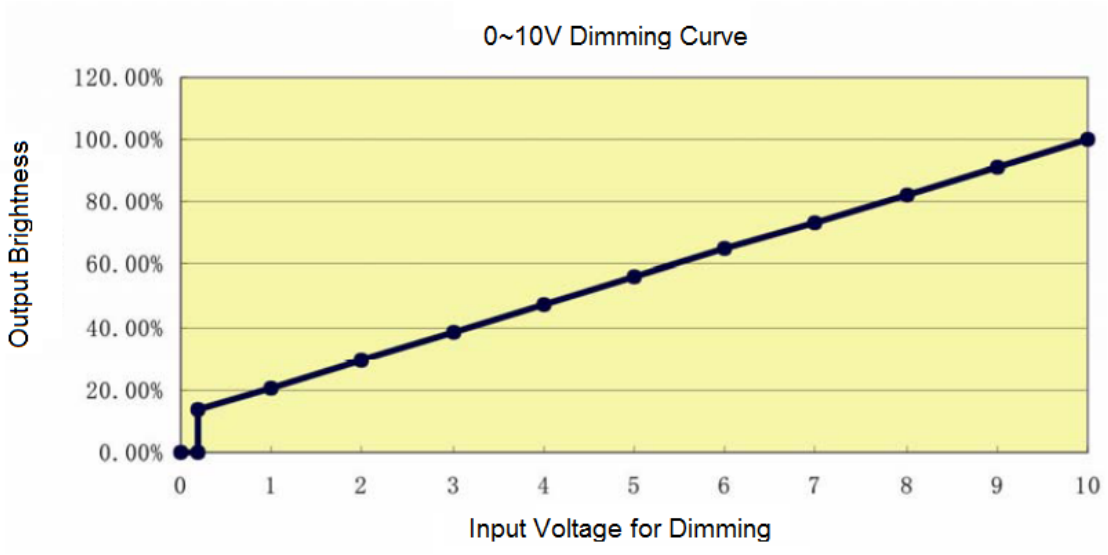
3.3 Insulation Resistance

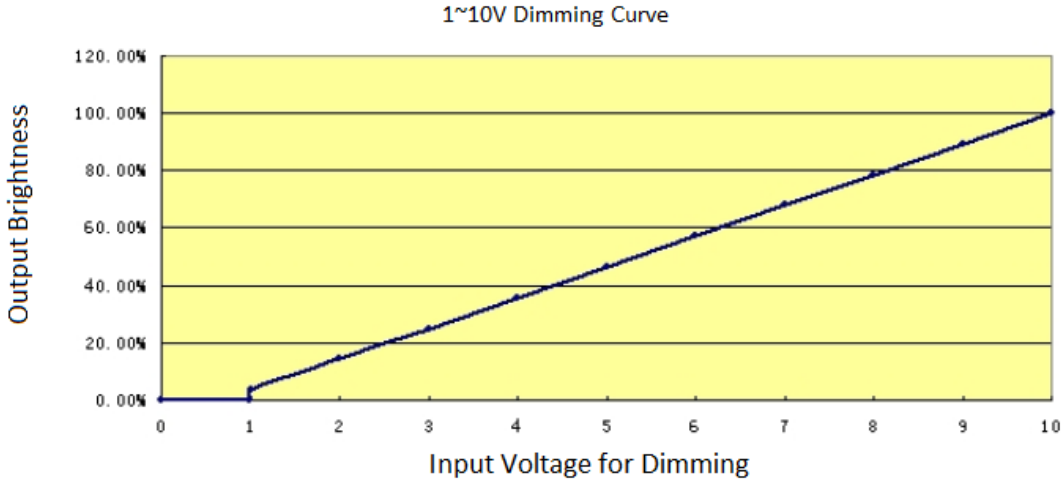
3.3.1 Input Circuit to Output Circuit: 500Vdc，100MΩ, 1 minute.

3.3.2 Input Circuit to the ground: 500Vdc，100MΩ, 1 minute.

4, Curves.

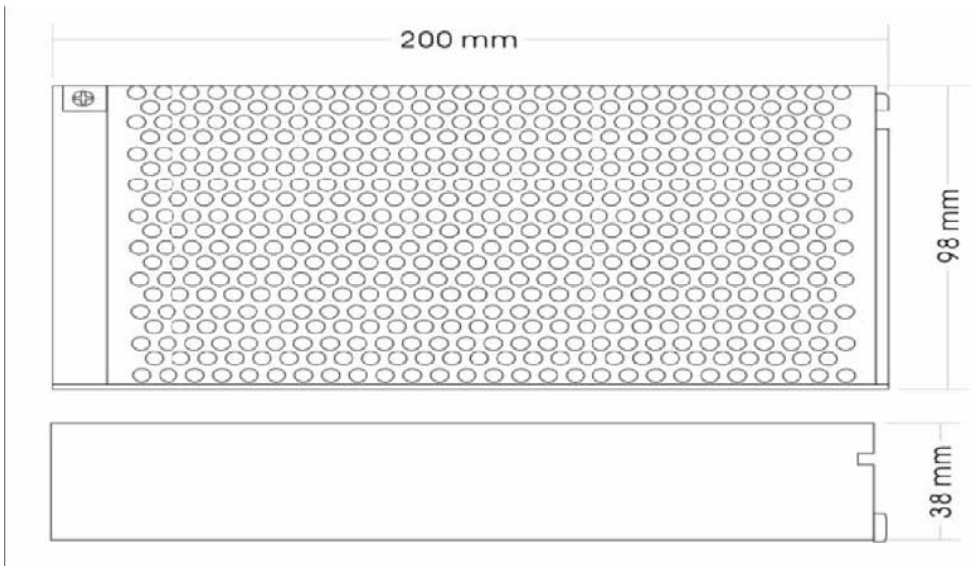
4.1 Dimming Curve



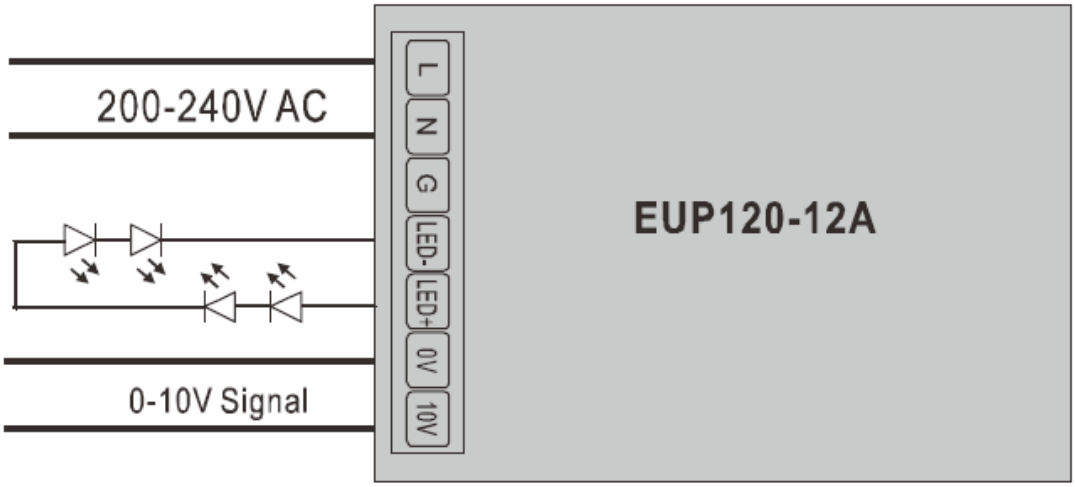




5, Mechanical Characteristics

5.1 Dimensions:



5.2 Wiring:




5.3 Weight.

670g (Typical)