

# ZVS induction heating instructions (E model)



## First, physical and electrical parameters

1. Size: 120\*240\*105 (unit: mm)
2. Working voltage: 12-48V
3. Maximum working voltage: 48V
4. Maximum working power: 2500W
5. Maximum working current: 50A

## Second, the use of precautions

1. No matter in any case, no power-on is allowed (no-load refers to the output port without any load). Once the power is turned on, the board will emit high-frequency noise, which will cause the MOS tube to be completely damaged.
2. It must be noted when using switching power supply, because high-power switching power supply generally has a slow-start function, that is, it slowly rises when the output voltage starts, and if the voltage rises to 11V, the induction heating circuit is turned on because the voltage is not enough. The circuit is not vibrated, so that the two MOS tubes are turned on at the same time to burn the components, so it is necessary to connect the induction heating circuit after the switching power supply voltage is stable;
3. This circuit has strict requirements on power supply. The 12V power supply must use more than 500W power supply, 24V is greater than 1200W, 36V is greater than 2000W, and 48V is greater than 2600W.
4. No matter at any voltage, as long as the operating current is lower than 50A, the circuit will not be burned out. Therefore, a 50A fuse can be added to protect the circuit during high-power operation.
5. It is inevitable that high-power operation heat is generated, so it should be cooled by the top of the fan while working.
6. The working voltage must not be lower than 12V.