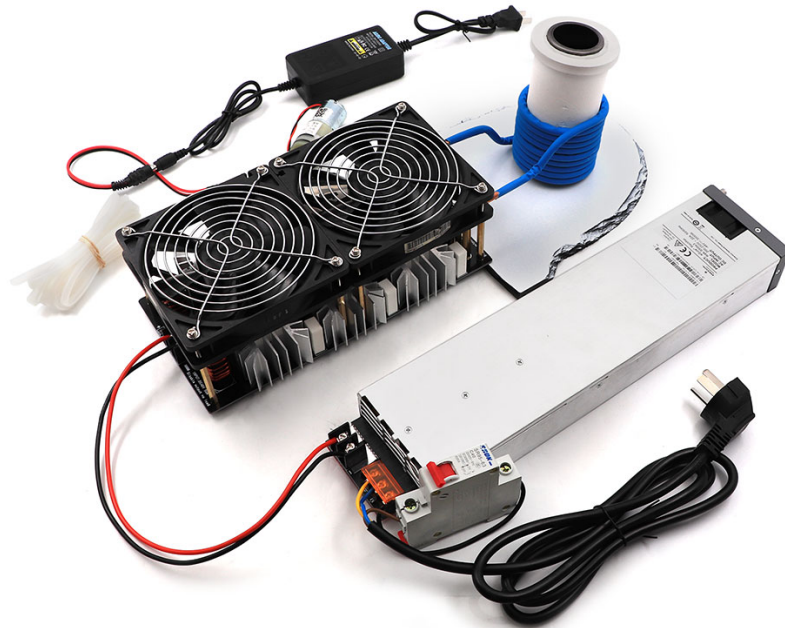


ZVS Induction Heater Flyback Driver with Power Supply 48V 3000W



Features:

- Small power induction heating machine, mainly used for heating and quenching of small iron metal materials;
- Adopting 1.6mm thick military grade PCB design, copper thickness 2Oz, large current, good heat dissipation;
- 120mm dual cooling fan;
- Adopt customized oversized high-power heat sink to ensure the heat dissipation of MOS tube;
- The output terminal uses three M4 copper columns in parallel, except for the heating coil, which can be connected with high voltage package or high frequency transformer;
- Using six original IRFP260 and 12 original BM capacitors in parallel resonance, high power efficiency;
- This product can work continuously for a long time under the condition that the heat dissipation is up to standard.
- Easy to melt iron, copper, gold, silver and other metals.

Specifications:

- Input voltage: DC12-48V
- Maximum DC operating current: 50A
- Maximum power: 2500W
- Metal iron direct heating up to 800-900°C
- Maximum use temperature: 1600°C
- Dimensions: 240(L) x 120(W) x 85(H) mm
- Heating ring size: 70x60x73mm

Notes:

1. Induction heating work is very powerful. In addition to the heat generated by the PCB board and electronic components, the heating capacity of the heating coil is also very large. In order to avoid the burning of the heating coil and affect the whole system, please be sure to support the heating coil cooling water pump;

2. It is necessary to pay attention when using the switching power supply, because the 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 of the voltage. Not enough, the circuit does not vibrate, so that the two MOS tubes are turned on at the same time to burn the components. Therefore, it is necessary to connect the induction heating circuit after the switching power supply voltage is stable, and an air switch can be connected between the power supply and the main board. After the electricity is stable, push it again;
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, 48V is greater than 2600W (recommended working voltage is 48V);
4. No matter whether it is used under any voltage, as long as the working current is lower than 50A, it will not burn the circuit. 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. Therefore, the fan should be blown to effectively dissipate heat while working.
6. The working voltage must not be lower than 12V;
7. When the heating machine is working, the heating coil will generate high heat. The water cooling must be used to cool the heating coil to avoid damage to the main board caused by high temperature.
8. The input end of the power supply is marked with positive and negative poles. Do not reverse the connection!
9. The heating coil may be deformed during transportation, resulting in a short circuit between the layers. Please separate the motherboard and connect it to the motherboard. Otherwise, overload may occur and the motherboard may be burned out.
10. Do not power on at no load (here, the no-load refers to the output without any load, and the heating coil does not heat the object is not empty), otherwise the board will emit a very high frequency noise, instantly burn the motherboard, completely scrapped!

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