The part list is a bit long but not complicated at all. We need the driver, the IGBTs, some coils, regualtors and capacitors. For the high voltage generator, I've just bought a module for 10€ and took the driver, transformer and small components out of it. In this way I save some money and also make sure the transformer is the one that I want. Check the schematic in order to know the resistor values.

* 1 x GERBERs [Download LINK](http://localhost/electronoobs/eng_circuitos_tut83_gerbers1.php" \t "_blank)
* 1 x EGS002 Driver [LINK Aliexpress](https://s.click.aliexpress.com/e/_DeGNSSh)
* 4 x FGH40N65 IGBTs [LINK Aliexpress](https://s.click.aliexpress.com/e/_Dl553gv)
* 1 x 500W Inverter [LINK Aliexpress](https://s.click.aliexpress.com/e/_DevCmUl)
* 2 x shunt 20mOhm [LINK Aliexpress](https://s.click.aliexpress.com/e/_DEtqSbF)
* 2 x 450V 100uF Electrolytic Capacitor [LINK Aliexpress](https://s.click.aliexpress.com/e/_DEZ5kL7" \t "_blank)
* 1 x 35V 100uF Electrolytic Capacitor [LINK Aliexpress](https://s.click.aliexpress.com/e/_DEMRBuv" \t "_blank)
* 2 x 25V 470uF Electrolytic Capacitor [LINK Aliexpress](https://s.click.aliexpress.com/e/_DEMRBuv" \t "_blank)
* 1 x L7815 Regulator[LINK Aliexpress](https://s.click.aliexpress.com/e/_DDmJEa1)
* 1 x L7805 Regulator[LINK Aliexpress](https://s.click.aliexpress.com/e/_DmmmFwd)
* 4 x HER207 Diode [LINK Aliexpress](https://s.click.aliexpress.com/e/_DljBvJR)
* 1 x S8050 BJT transistor [LINK Aliexpress](https://s.click.aliexpress.com/e/_Ddj91Oz" \t "_blank)
* 1 x 10K 20 turns potentiometer [LINK Aliexpress](https://s.click.aliexpress.com/e/_DexveU5" \t "_blank)
* 4 x 1N4148 diode [LINK Aliexpress](https://s.click.aliexpress.com/e/_DBc67DT)
* 1 x 2000W Inductor [LINK Aliexpress](https://s.click.aliexpress.com/e/_DB0jfAd)
* 4 x 100K 1/2W Resistor [LINK Aliexpress](https://s.click.aliexpress.com/e/_Dl0a6iv" \t "_blank)
* 1 x Choke filter [LINK Aliexpress](https://s.click.aliexpress.com/e/_DCMlJpL)
* 1 x 100nF 275V film capacitor [LINK Aliexpress](https://s.click.aliexpress.com/e/_DCZ6IoH" \t "_blank)
* 2 x 2.2uF 630V ceramic capacitor [LINK Aliexpress](https://s.click.aliexpress.com/e/_DB6gTDj)
* Through Hole resistors (check schematic values) [LINK Aliexpress](https://s.click.aliexpress.com/e/_DlHOqzn" \t "_blank)
* Heatsink [LINK Aliexpress](https://s.click.aliexpress.com/e/_DDpvSUd)
* 1 x slide switch [LINK Aliexpress](https://s.click.aliexpress.com/e/_DeyZoF7)
* 1 x cooling fan 40mm [LINK Aliexpress](https://s.click.aliexpress.com/e/_DEqM1h7" \t "_blank)
* 1 x case 240x120mm [LINK Aliexpress](https://s.click.aliexpress.com/e/_DnBFomp)
* 1 x plastic screw M3 [LINK Aliexpress](https://s.click.aliexpress.com/e/_DBtHQAZ" \t "_blank)
* 1 x Rectifier Bridge [LINK Aliexpress](https://s.click.aliexpress.com/e/_DnbV20N)