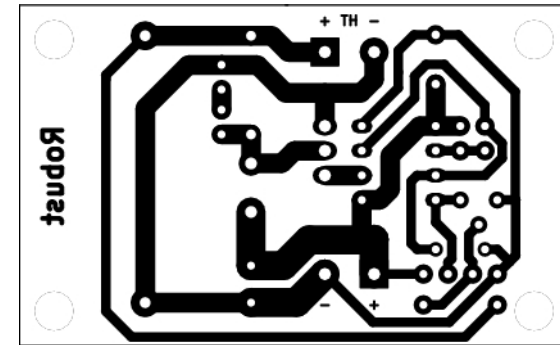
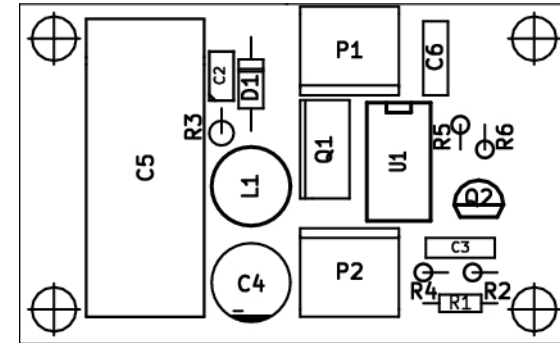
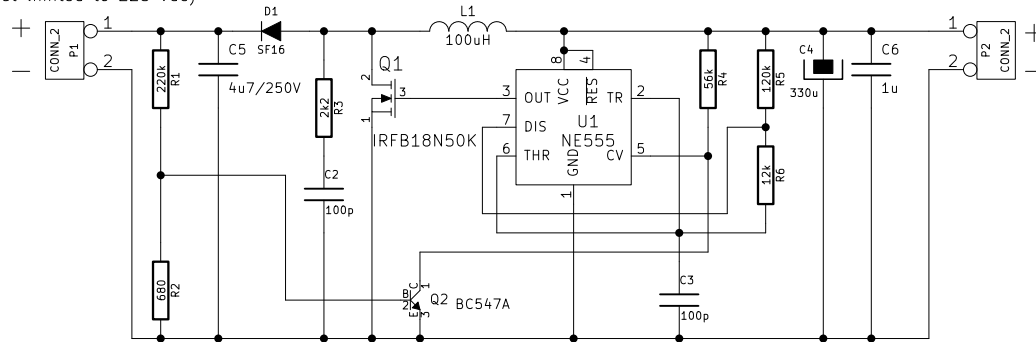
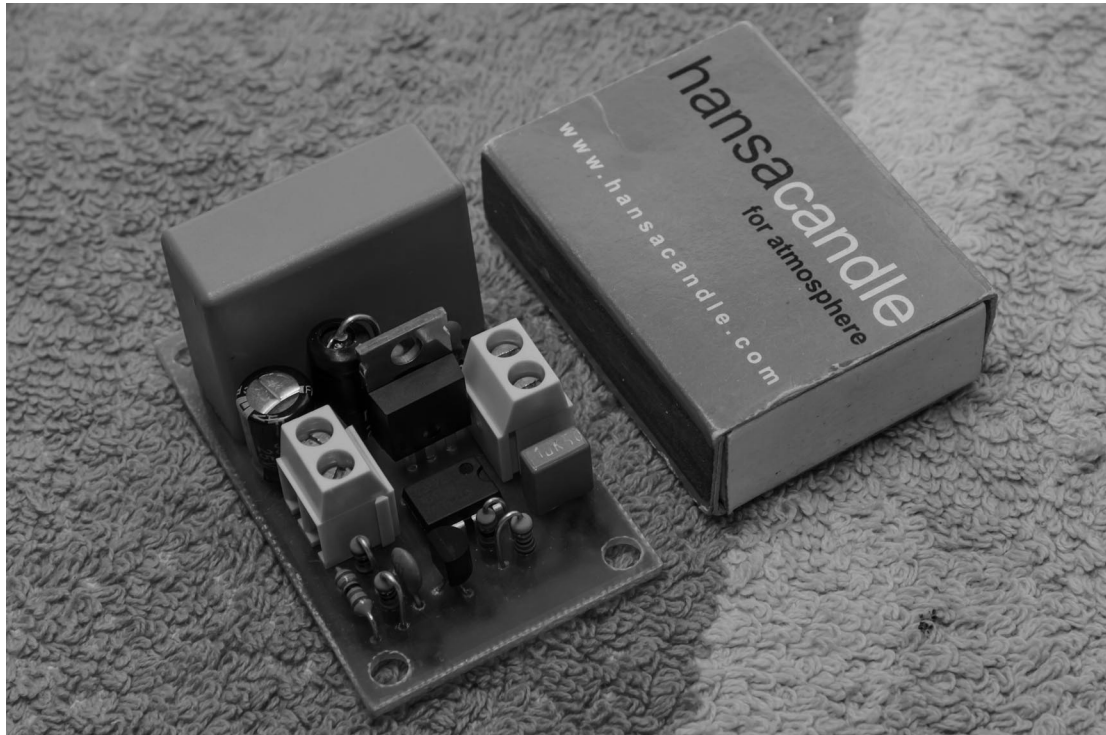


Output 32,5 mA @ 205 Vdc  
(Output limited to 225 Vdc)

Input 0,66 A @ 12 Vdc



Board 57mm\*35mm



- |                            |                            |       |
|----------------------------|----------------------------|-------|
| P1,P2                      | Screw terminals            | R5    |
| C6                         | nonpol 1uF/50V 7mm*2mm     | R5    |
| C4                         | low ESR 330uF/25V 8mm*13mm | R5    |
| C5                         | Wima MKS4 4,7uF/250V       | R27,5 |
| L1                         | HM50-100uH                 |       |
| Q1                         | IRFB18N50K                 |       |
| U1                         | NE555                      |       |
| D1                         | SF16                       |       |
| Resistors 0,6W metal-oxide |                            |       |

If voltages are off, check BC547A pinout. Reverse the unit if necessary.  
Do not expect the device to deliver if EXACT components are not used.  
Although the efficiency is around 84 %, a coil and a MOSFET will get warm  
(They dissipate about 1,3 Watts). You might want to cool a things bit (add a fan).  
Also the BC547A is sensitive to temperature and tends to lower the output voltage  
if it warms.

Drawn: Timo Vähälä		
Robust Amplification		
File: Pohja.sch		
Sheet: /		
Title: High voltage SMPS		
Size: A4	Date: 4 oct 2013	Rev: 1.4
KiCad E.D.A.		Id: 1/1