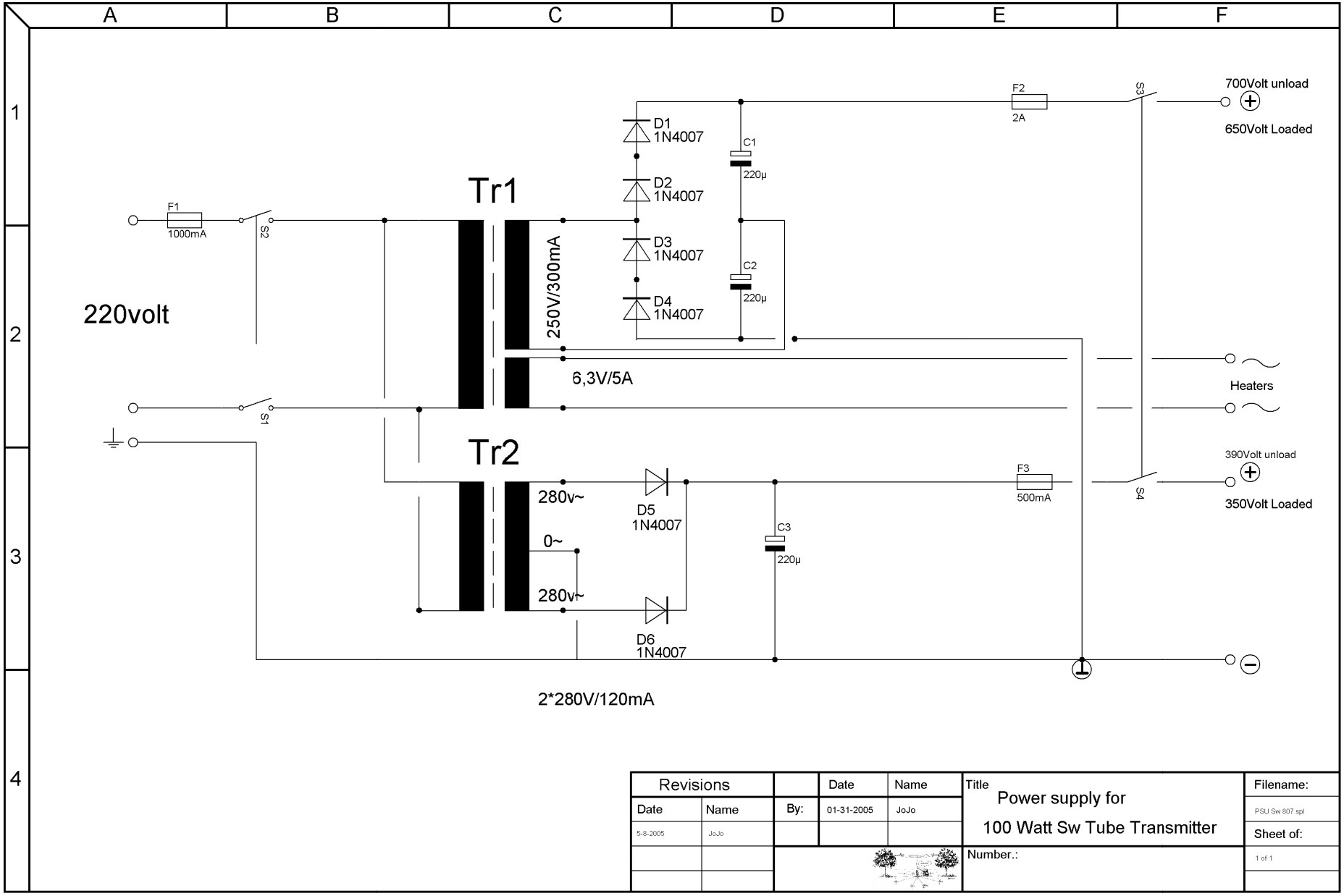
A
B
C
D
E
F
1
2
3
4
220volt
F1
1000mA
S2
S1
Tr1
250V/300mA
6,3V/5A
D1
1N4007
D2
1N4007
D3
1N4007
D4
1N4007
C1
220µ
C2
220µ
F2
2A
S3
700Volt unload
650Volt Loaded
Heaters
Tr2
280v~
0~
280v~
D5
1N4007
D6
1N4007
C3
220µ
F3
500mA
S4
390Volt unload
350Volt Loaded
2*280V/120mA
Revisions
Date
Name
5-8-2005
JoJo
By:
Date
Name
01-31-2005
JoJo
Title
Power supply for
100 Watt Sw Tube Transmitter
Number.:
Filename:
PSU Sw 807.spl
Sheet of:
1 of 1

The power supply

For this transmitter I use a Simple Power supply with less components. I use two separate transformers, one for the oscillator and buffer tube, and one for the final tubes.

The transformer I use for the high voltage has secondary only 250 volt. I use a doubler to get the 700 volt. if You have one with 280 volt this would be better. This will give you at the end the 750 volt you need for the 100 watt power.

Of course You can use a choke and extra capacitor in both circuits, but when U use the 220uF capacitors this is not neccercery.

Components

C1 = 220µ (400Volt)
C2 = 220µ (400Volt)
C3 = 220µ (450Volt)

D1 = 1N4007 ((1000V/1A))
D2 = 1N4007 ((1000V/1A))
D3 = 1N4007 ((1000V/1A))
D4 = 1N4007 ((1000V/1A))
D5 = 1N4007 ((1000V/1A))
D6 = 1N4007 ((1000V/1A))

F1 = 1000mA
F2 = 2A
F3 = 500mA

S1-S2 = Switch
S3-S4 = Switch

Tr1 = 250V/300mA
Tr2 = 2*280V/120mA