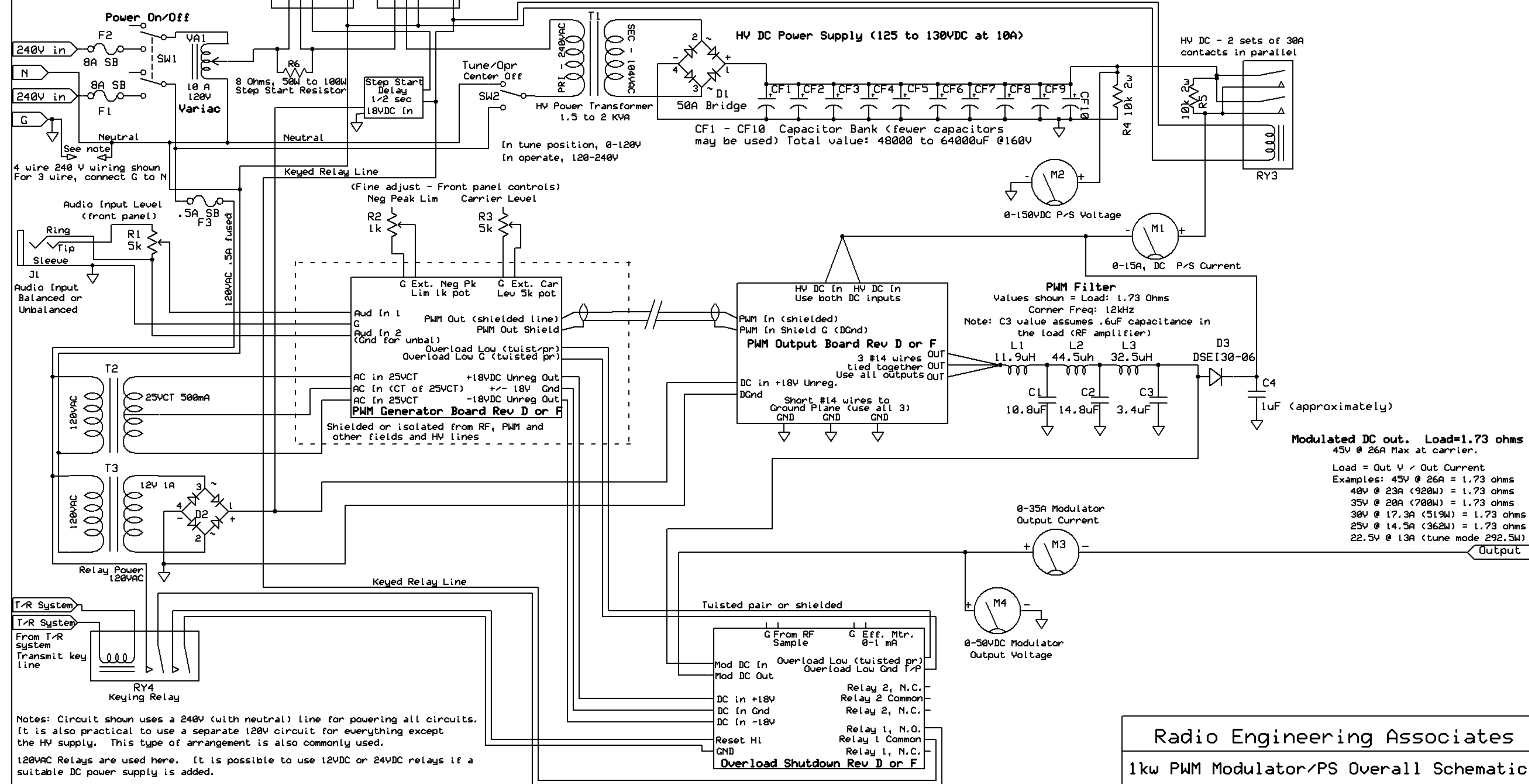


Step Start and AC Control Relays 25A Min. 1kw PWM Modulator/Power Supply (45V @ 26A - 1.73 ohm load)

Overall System Schematic and wiring

1kw shown. Other power levels are very similar. Filter, power supply and meter values will be different. Relays can be smaller with lower power.



Modulated DC out. Load=1.73 ohms
 45V @ 26A Max at carrier.

Load = Out V / Out Current

Examples: 45V @ 26A = 1.73 ohms
 40V @ 23A (920W) = 1.73 ohms
 35V @ 20A (700W) = 1.73 ohms
 30V @ 17.3A (519W) = 1.73 ohms
 25V @ 14.5A (362W) = 1.73 ohms
 22.5V @ 13A (tune mode 292.5W)

Radio Engineering Associates
 1kw PWM Modulator/PS Overall Schematic

Notes: Circuit shown uses a 240V (with neutral) line for powering all circuits. It is also practical to use a separate 120V circuit for everything except the HV supply. This type of arrangement is also commonly used.

120VAC Relays are used here. It is possible to use 12VDC or 24VDC relays if a suitable DC power supply is added.

Do not use the +/- 18VDC Unreg DC from the PWM Generator to power anything except the overload shutdown board.