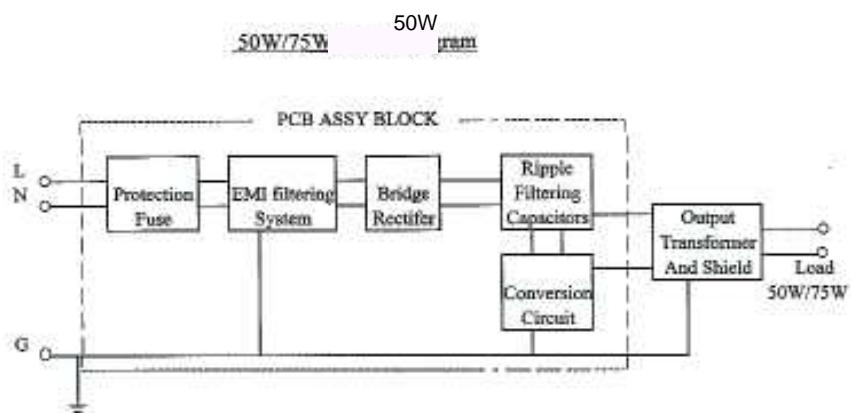


Electronic Ballast for Fluorescent Lamp With Switching Power Supply @ 24 kHz
Block Diagram



This is a half bridge conversion switch power supply. The operation of the halogen power converter is some simple. The input voltage required is 120VAC with 60 cycles. A protection fuse precedes the filter to prevent damage to the circuit. Coil, resistor, capacitors and ground wire make up the filtering system (Low Pass). The capacitors to convert ac to dc. Next the dc input enters the oscillating circuit. The ferrite oscillator in conjunction with a diode, and bipolar switching transistors converts the frequency to approximately 24kHz. The output transformer produces an output of 12VAC/24kHz.