

Part Description

Part: Carrier Residential Power Supply, 208/230 V

Part #: 44000127

Functionality Description: The power supply receives a 208/230 VAC 60Hz line input. It rectifies the AC (alternating current) input to DC (direct current) at about 300V and smoothes it with an electrolytic capacitor. This DC voltage supplies the half bridge inverter circuit, which works around 45 kHz and which generates a high frequency voltage to operate the lamp (referred to as Emitter™). The output choke will stabilize the Emitter™ current to about 400mA. The capacitor, in parallel with the Emitter™, helps to ignite the Emitter™. When the inverter is working, it will light the LED's on the power supply to reflect the normal working condition of the power supply. Whenever there is a failure to cause the inverter to stop working, the LED's will turn off to reflect an abnormal condition.