

ENCORE ELECTRONICS INC.  
Model FL668  
High Voltage Amplifier

- Description
- Specifications
- Schematic B15945

DESCRIPTION  
Model FL668  
High Voltage Amplifier

The Model FL668 is a single-ended DC amplifier with a fixed gain of 7.40, so 0-10VDC input results in 0-74VDC output. External power requirement is +85VDC at 45mA.

Connections are made through six wireclamp screw terminals. All three common terminals are tied together.

The amplifier is short-circuit proof with current limiting at 30mA output. This results in a minimum load resistance of 2500 ohms. With a short circuit applied, the heatsink will be dissipating approximately 3 watts. In normal operation, maximum heat (under 1 watt) occurs at roughly 5V input.

The output has an internal 4.7uF capacitor, which combines with external load resistance to determine step response time for falling voltage. Rising output voltage will change more quickly.

SPECIFICATIONS  
Model FL668  
High Voltage Amplifier

SIGNAL INPUT: 0 to +10VDC

INPUT IMPEDANCE: 10k ohms

GAIN: Fixed at 4.70 V/V

OUTPUT: 0 to +74VDC max., 2.5k ohm minimum load

PROTECTION: Output current limited to 40mA  
May be short circuited indefinitely

STEP RESPONSE: Under 80mSec from 74V to zero,  
with 3000 ohm external load

CONSTRUCTION: DIN-rail mount module,  
3 1/8"W x 3 3/8"H x 7/8"D  
plus 1" heatsink on front of module

POWER: +85VDC @ 45mA max. (3.8 watts)  
5mA with no output load