



# CHEROKEE INTERNATIONAL

*"The Powerful Choice"*

## QF62 Series

62 Watt Switch Power Supplies  
*Single & Multiple Output Power Supplies*

### Features

- ◆ TUV Licensed to IEC 950 and EN 60950
- ◆ CSA Certified to C 22.2 No. 234 – 950 and EB 1402C
- ◆ Fully compliant with FCC and VDE (Level B)
- ◆ UL Recognized to UL 1950
- ◆ 0°-50°C operating ambient with convection cooling only.
- ◆ Wide Range 85-264VAC Input
- ◆ Input surge current limited
- ◆ Brown-out protected
- ◆ Overload protected
- ◆ Overvoltage protected
- ◆ Reverse voltage protected
- ◆ Low noise output



**62 Watts**

### Product Specifications

**AC Input:** Range: 90-64VAC 50/60Hz.

**DC Output: Nominal: See AVAILABLE OUTPUTS table.** Output 1 adjustable  $\pm 5\%$ , all other outputs tracks V1.

**Output Tolerances:** Line  $\pm 0.5\%$  all outputs full AC input range Load  $\pm$ .

|                | <u>Min-I</u> | <u>Max-I</u> | <u>Tolerance</u> |
|----------------|--------------|--------------|------------------|
| Output 1 (+5)  | 8.0A         | 8.0A         | $\pm 5\%$        |
| Output 2 (+12) | 5.0A         | 2.5A         | $\pm 5\%$        |
| Output 3 (-12) | 5.0A         | 0.5A         | $\pm 10\%$       |

**Note:** Single output supply regulation will be less than  $\pm 1\%$ .

**Ripple/Noise:** Sum: 1% Pk-Pk (BW 20Mhz), all outputs

**Overshoot & Undershoot:** Deviation: 2% for 25% load change at 5A/usec, Response: 200 usec to 1% deviation, all outputs turn-on or turn off.

**Temperature Coefficient:**  $\pm 0.02\%^\circ\text{C}$ , all output.

**Temperature Range:** Operation  $0^\circ\text{C}$  to  $50^\circ\text{C}$  at rated

output power derate linearly to 50% power at  $70^\circ$ ;  
Storage:  $-55^\circ\text{C}$  to  $85^\circ\text{C}$ .

**Efficiency:** 70% typical.

**Overload Protection:** All outputs current limited by primary current level, automatic recovery.

**Overload Protection:** Output 1: output level  $> 6.25\text{V} \pm 5\%$  Causes Shutdown, automatic recovery.

**Reverse Voltage Protection:** 100% of rated current outputs.

**Hold-up time:** 16 ms after loss of Nominal AC Input, for specified load regulation.

**In-rush Surge:** 20A PEAK @ 115VAC cold start.

**Fusing (F-1):** 2A, 5MF for 250VAC.

**Shock/Vibration:** Per MIL-STD-810C. Vibration: Method 514.2 Procedures X, X1.

## QF62 - VOLTAGE COMBINATIONS

| MODEL<br>NUMBER | OUTPUT 1 |      |      | OUTPUT 2 |      |      | OUTPUT 3 |      |      |
|-----------------|----------|------|------|----------|------|------|----------|------|------|
|                 | Volts    | Amps | Peak | Volts    | Amps | Peak | Volts    | Amps | Peak |
| QF62A1          | +5       | 8.0  | 10.0 | +12      | 2.5  | 5.0  | -12      | 0.5  | 1.0  |
| QF62B1          | +5       | 8.0  | 10.0 | +15      | 2.0  | 4.0  | -15      | 0.5  | 1.0  |
| QF62C1          | +5       | 8.0  | 10.0 | +24      | 1.0  | 1.5  | -5       | 0.5  | 1.0  |
| QF62D1          | +5       | 12.4 | 15   | -        | -    | -    | -        | -    | -    |
| QF62E1          | +12      | 5.1  | 6.0  | -        | -    | -    | -        | -    | -    |
| QF62F1          | +24      | 2.5  | 3    | -        | -    | -    | -        | -    | -    |
| QF62G1          | +5       | 8.0  | 12.0 | 12       | 2.5  | 5.0  | -5       | 0.5  | 1.0  |
| QF62H1          | +5       | 8.0  | 10.0 | 12       | 2.5  | 5.0  | -        | -    | -    |
| QF62J1          | +48      | 1.25 | 1.5  | -        | -    | -    | -        | -    | -    |
| QF62K1          | +15      | 4.1  | 4.8  | -        | -    | -    | -        | -    | -    |
| QF62L1          | +24      | 2.5  | 3.0  | -        | -    | -    | -        | -    | -    |

### Total (sum) of rated DC output power, Maximum:

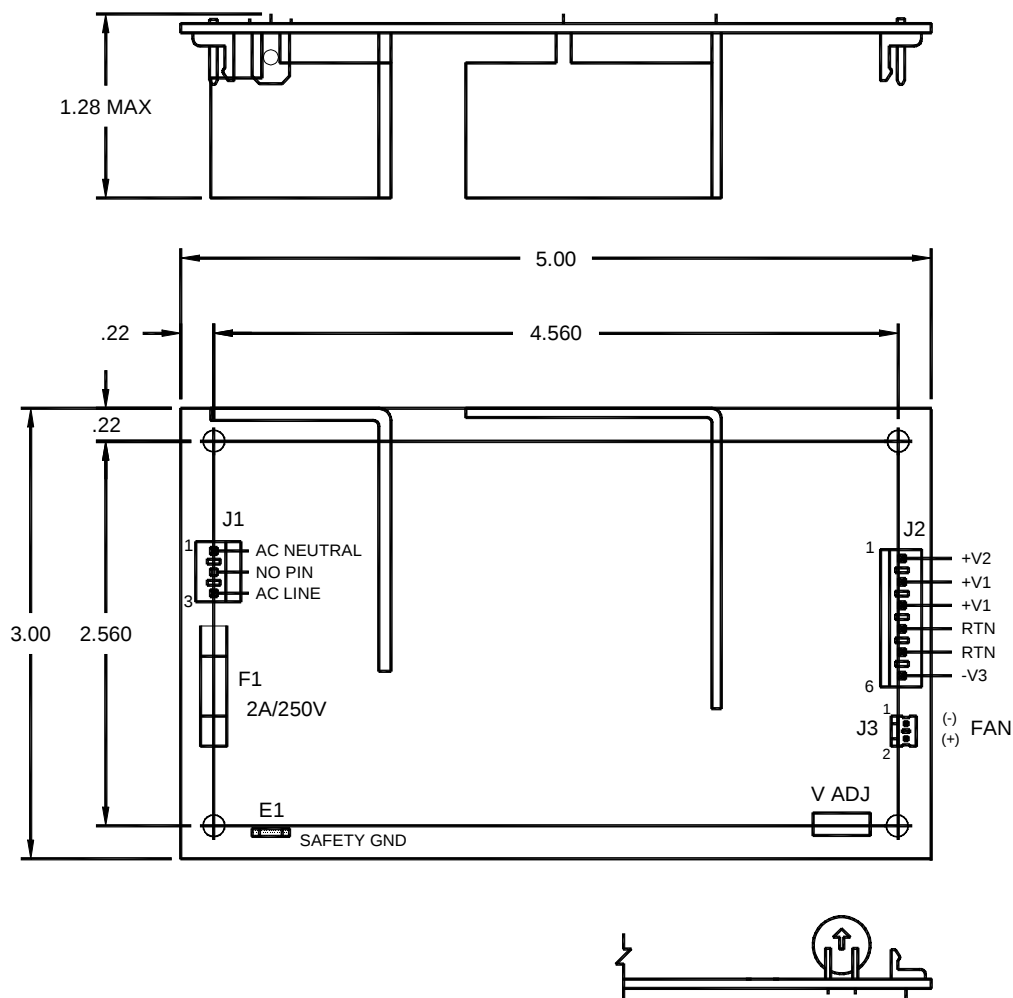
Convection cooling only 50 Watts

Forced-air cooling (25 CFM) 62 Watts

Peak Power (10 sec) 72 Watts

• Other output combinations are also available. Consult factory

## Outline/Mounting/Interface



070199 REV.A