



# CHEROKEE INTERNATIONAL

*“The Powerful Choice”*

## QF32 Series

43 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 EB1402C
- ◆ Fully compliant with FCC “B” standards for EMI
- ◆ 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
- ◆ Complete overload protected
- ◆ Overvoltage protected
- ◆ Reverse voltage protected
- ◆ Low noise output
- ◆ “Power On” LED Output
- ◆ Seperate output connector for fan (V2)



**43 Watts**

### Product Specifications

**AC Input: Nominal:** 120/240VAC, 47-63Hz. Range: 90-64VAC Wide Range.

**DC Output:** Output 1 adjustable  $\pm 5\%$  Output 2 tracks Output 1.

**Output Tolerances:**

	<u>Min I</u>	<u>Max I</u>	<u>Tolerance</u>
Output 1 (+5)	0.4A	4.0A	$\pm 5\%$
Output 2 (+12)	0.3A	2.5A	$\pm 5\%$
(+15)	0.3A	2.0A	$\pm 5\%$
(+24)	0.2A	1.5A	$\pm 5\%$

**Ripple/Noise:** Sum: 1% Pk-Pk, 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  $70^\circ\text{C}$ , Storage:  $-55^\circ\text{C}$  to  $85^\circ\text{C}$ .

**Efficiency:** 65% typical.

**Overload Protection:** All outputs short circuit protected, 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:** 20 ms after loss of nominal AC Input, for specified load regulation.

**In-rush Surge:** 20A Pk/120 VAC, 40A Pk/240 VAC cold start.

**Fusing (F-1):** 2A, 5MF for 120/240 VAC.

**Shock/Vibration:** Per MIL-STD-810C. Vibration: Method 514.2 Procedures X, X1. Shock: Method 516.2, Procedures I, III. Shock (Transit): Method 516.2 Procedure I.

Weight: 10 oz.

## QF32 - OUTPUT COMBINATIONS

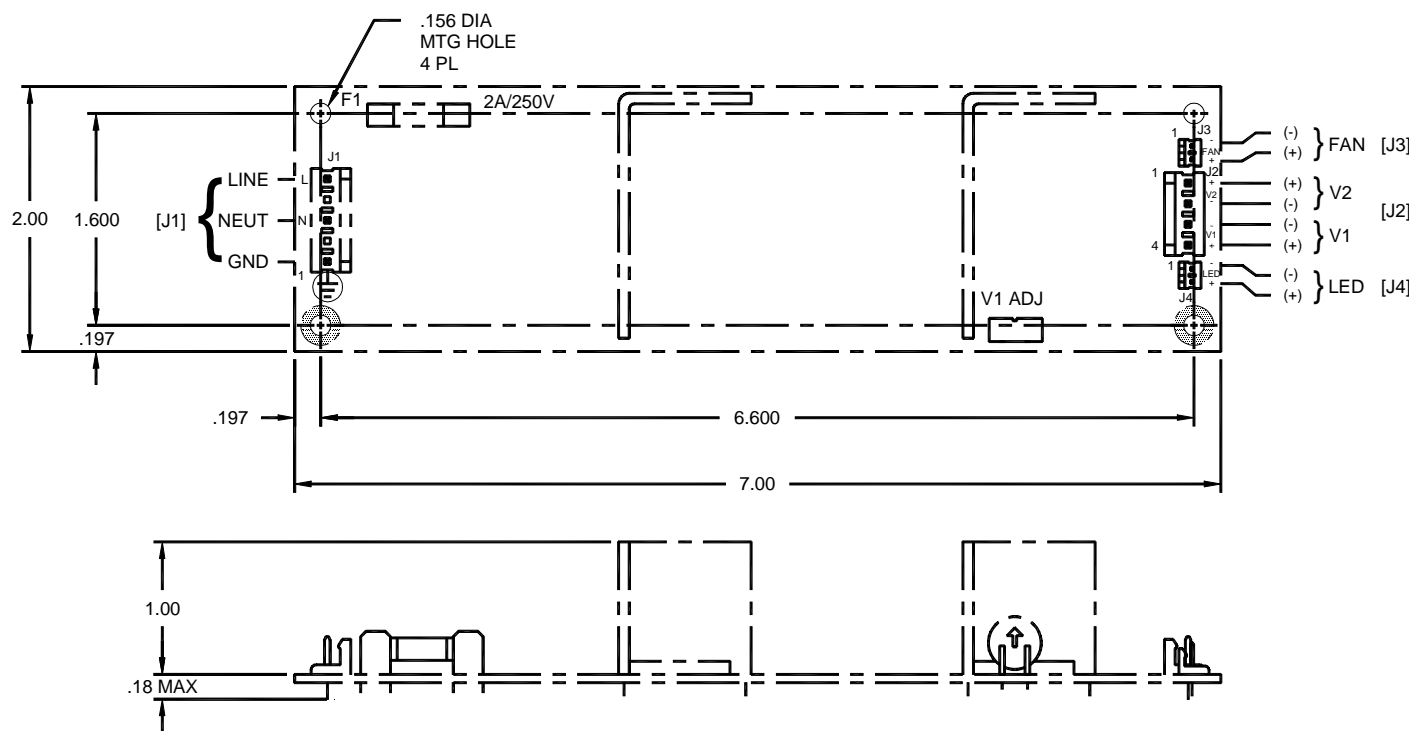
Model Number	Output 1			Output 2		
	Volts	Amps	Peak	Volts	Amps	Peak
QF32A1	+5	4.0	6.0	+12	2.5	4.5
QF32B1	+5	4.0	6.0	+15	2.0	3.5
QF32C1	+5	4.0	6.0	+15	1.5	2.0

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

Convection cooling only	33 Watts
Forced-air cooling (25 CFM)	46 Watts
Peak Power (10 sec)	72 Watts

• Other output combinations are also available. Consult factory

### Outline/Mounting/Interface



CONNECTOR	MFG NAME	PCB CONNECTOR	MATING CONNECTOR
J1	AMP	640445-5	640427-5
J2	AMP	640445-4	640427-4
J3/J4	AMP	640456-2	640441-2