



CHEROKEE INTERNATIONAL

"The Powerful Choice"

CRP1200 Series

1200W Bulk Power Hot Swap
Fault Tolerant Power Supplies

Features

- ◆ Power Factor Corrected
- ◆ EMI meets FCC & EN55022 class "B"
- ◆ UL, cUL and TUV
- ◆ NOVRAM for customer stored information
- ◆ With or without isolation diodes
- ◆ Current Sharing Droop Method (no wire required)
- ◆ AC OK signal & front panel LED indicator
- ◆ DC OK signal & front panel LED indicator
- ◆ Power Supply Present signal
- ◆ Remote On/Off
- ◆ Current Limiting Protection
- ◆ Automatic Thermal Shutdown
- ◆ Over-voltage Protection
- ◆ Droop Current Sharing
- ◆ 5 volt 50mA standby output



1200 Watts

Product Specifications

INPUT SPECIFICATIONS:

INPUT RANGE: 85 to 264VAC Continuous Range operation from 47-63 Hz. Internally fused for 115/230 VAC; 3AB.**LEAKAGE:** 1.5mA max. Inrush Current (Cold Start): 50 Amps peak.

POWER FACTOR AND HARMONIC CORRECTION: Compliant to EN61000-3-2. Power factor is 0.99 typical at full load.

EFFICIENCY: 80% with isolation diodes (typical).

OUTPUT SPECIFICATIONS (DC) :

Model Selector Guide (Table 1)				
Model Number	Output Voltage	Output Current		Ripple & Noise
		Max.	90VAC	
CRP1200-K1	24VDC	40A	36A	240mV P-P
CRP1200-L1	48VDC	25A	18A	480mV P-P

OUTPUT RATINGS: Table 1. Must not exceed the ratings indicated, with the voltage measured at the output terminals. Airflow must not be inhibited.

OUTPUT POWER: Full power from 0°C to 50°C. Derate linearly to 50% at 70°C (2.5 % / °C). Overload limited.

REGULATION TOTAL (Line, Load & Initial Setting): Without isolation diodes ±3%, with isolation diodes ±5%.

TEMPERATURE COEFFICIENT: ± 0.02% / °C.

TURN ON TIME: 2 seconds.

OUTPUT VOLTAGE ADJUSTMENT: V1, ±5%.

CURRENT SHARING (Drooping Method): ±10%. Shares as a percent of the maximum output current rating.

DYNAMIC RESPONSE: A step load change (1A/msec max. slew rate) of ±25% of max. rated current, tested at 75% of max. rated

current will cause a max. deviation of 3%. Output will recover to within 2% of nominal in 300msec (typical).

PARD/RIPPLE & NOISE: 1% peak-to-peak max. @ 20MHz bandwidth, measured across a 10mf tantalum capacitor in parallel with a 0.1mf ceramic capacitor at the load using a 24-in. load cable.

HOLD-UP TIME: At full load, low line, output will remain in regulation for a minimum of 20 msec after loss of AC input power.

OVERSHOOT & UNDERSHOOT: Following turn-on/off or (enable/inhibit), the output voltage overshoot or undershoot shall be less than 2% of nominal output voltage.

CURRENT LIMITING & OVER CURRENT SIGNAL: 110% to 125% of max. output current ratings. To Reset, cycle input power.

SHORT CIRCUIT PROTECTION: Protected. To Reset, cycle input power.

THERMAL SHUTDOWN & SIGNAL: Low OK. Shuts down when excessive ambient temperature condition occurs. To Reset, cycle input power.

OVERVOLTAGE PROTECTION & SIGNAL: Trip point of 125% to 130% of nominal voltage. The entire supply shuts down. To Reset, cycle input power.

REVERSE VOLTAGE PROTECTION: To 100% of rated output current.

AC OK LAMP & SIGNAL: Warning time 4 msec min. between AC fail and DC is out of regulation.

DC OK LAMP SIGNAL: Goes low when the output goes 5% below the lower regulation limit.

POWER SUPPLY PRESENT SIGNAL: Indicates supply is in the system.

WARRANTY: One Year from date of shipment.

NOTE: Specifications are limited to those specified herein and are subject to change without notice.

Outline/Mounting/Interface

INPUT/OUTPUT CONNECTOR	
PIN#	FUNCTION
1	(NO PIN)
2	LINE
3	(NO PIN)
4	+48V
5	-48V RTN
6	48V RTN
7	-INH
8	-DCOK
9	NEUT
10	(NO PIN)
11	(NO PIN)
12	+48V
13	(NOT USED)
14	(NOT USED)
15	ACFAIL
16	CHAS

