

CHEROKEE INTERNATIONAL

Low Power CCP Series

150 Watt Power Supply

Low Cost - Low Profile - High Density

- 150W Modular Power Supply
- Power Factor & Harmonic Current Corrected
- Single & Multiple Outputs
- 1U High Profile
- Input Power Fail and DC Power Good Signals
- Remote Sense
- Remote ON/OFF – Enable/Inhibit
- Meets VDE/FCC Class "B" EMI
- Total Power Overload Limited



Features	Benefits
<ul style="list-style-type: none"> ▪ PFC Compliant to EN61000-3-2 ▪ Flexibility with option choices 	<ul style="list-style-type: none"> ▪ Supports global use of power supply ▪ Custom solutions available

Key Market Segments & Applications		
<ul style="list-style-type: none"> ▪ Communications ▪ Computer Peripheral Applications 	<ul style="list-style-type: none"> ▪ Applications Industrial Applications ▪ Test Equipment 	<ul style="list-style-type: none"> ▪ Medical Instrumentation

Specifications		Low Power CCP Series - 150 Watt Power Supply	
Input Voltage range	85-264VAC AC, 47-63Hz		
Power Factor	0.99 at Full Load. Compliant to EN61000-3-2		
Inrush Current (Cold Start)	20A Max @ 115VAC, 35A Max. @ 230VAC		
Input Current	2.70A @ Full power and 85VAC		
Efficiency	70% typical at 180VAC (measured at full load)		
Internally Fuse	4A, 250VAC (5MF Type)		
Output Power	150W		
Output Configuration	See table on page 2		
Voltage Adjustment Range	+/- 5%		
Total Regulation (Line/Load/Cross)	+/- 5% (typical). CCP151 has 2 tightly regulated independent V1 & V2 at +/- 1% (typical) when V4 is +/- 10%		
Output Ripple & Noise	+/- 1% (pk-pk) max. at 20MHz bandwidth		
Transient Response (at 25% step load)	Peak deviation of 3%; Settling time 300μsec typical within 2% of nominal; Slew rate of 2A/μsec		
Hold Up Time	At full load, low line will remain in regulation for ≥ 20msec after loss of AC input power.		
Total Power Overload Limit	Set at 200W by sensing primary input current.		
Over Voltage Protection	V1 on CCP150/V1&V2 on CCP151. Power supply shuts down output exceeds over-voltage set trip point (116% to 130% of nominal voltage). To reset, cycle input power.		
Current Limit Protection	Limited by Total Package Power. 1A outputs are limited by monolithic integrated circuit post regular characteristics.		
Reverse Voltage Protection	All outputs protected up to 100% of the rated output current.		
Thermal Shutdown	Activated by an over temperature condition. Power cycles ON when fault is removed.		
DC Good - ("LOW" on Fail)	TTL "HIGH" to "LOW" occurs when Vo is less than 95% of the nominal output voltage setting.		
Remote Sense	Separate sense terminals will compensate for total line loss of 5%.		
Remote ON/OFF	LOGIC 1 (TTL High) or open enables unit (ON), LOGIC 0 (TTL Low) or short shuts unit down (OFF).		
Electromagnetic Compatibility	Radiated and Conducted Noise: EN55022/11, FCC Part 15 Level B		
	Electrostatic Discharge: EN61000-4-2 Level 3		
	RF Field Susceptibility: EN61000-4-3 & ENV50140 Level 3		
	Electrical Fast Transient/Bursts: EN61000-4-4 Level 3		
	Surge Susceptibility: EN61000-4-5 & ENV50141 Level 3		
	Conducted RF Susceptibility: EN61000-4-6		
	Radiated Magnetic Susceptibility: EN61000-4-8		
Shock & Vibration	Per MIL STD-810E		
Safety Certifications	UL 1950, CSA 22.2 No. 950 & 234, TUV (EN60950), CE Mark		
Operating Temperature	0 to 50°C.		
Cooling	25CFM required to obtain 150W power		
Humidity	Up to 95%. non-condensing		

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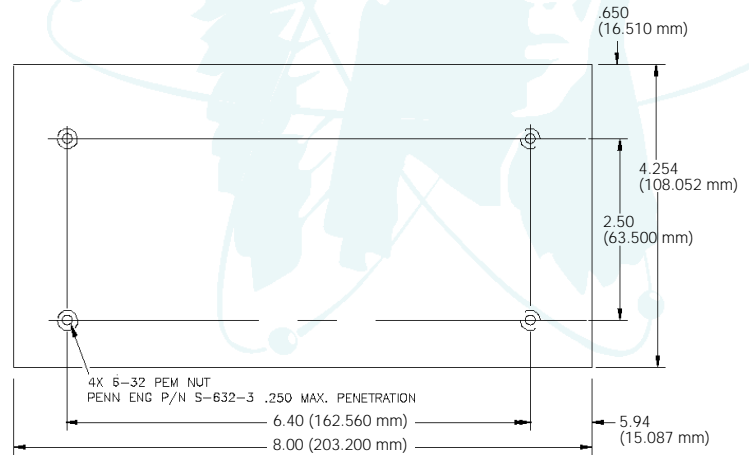
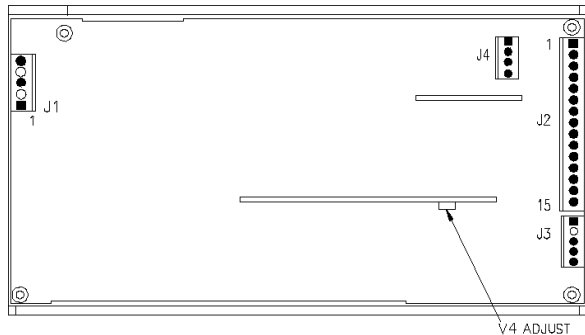
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Low Power CCP Series

150 Watt Power Supply

CCP151 Outline Drawing



CCP Model Selection Guide

CCP XXX XX X - 1A

Options: C: Cover without Fan, F: Cover with Top Mounted Fan, G: Cover with End Mounted Fan

Output Voltage (See Output Configuration Table)

Output Power: 150: 150W, 151: 150W (tightly regulated V1 and V2)

Model (CCP Series)

CCP Output Configurations

Model Number	V1 Current	V2 Current	V3 Current	V4 Current
	Single Output			
CCP151E1	3.3 26			
CCP151H1	24 7			
	Multiple Output			
CCP150E2	3.3 30			12 2
CCP150K2	+5.1 26			12 6
CCP151H3	+5.1 26	3.3 8		12 6
CCP151H4	+5.1 26	3.3 8	12 1	+12 6
CCP150P4	+5.1 26	12 1	-12 1	24 3
CCP151S4	+12 3.5	5 15	12 1	24 3
CCP151T4	5 26	3.3 8	-15 1	+15 3

Consult factory for other output configurations.

CCP Connector Part Numbers

Connector Number	PCB Connector Part Number	Mating Connector
J1		
AMP	640445-5	640426-5
PANDUIT	HLSS-156-5	CE 156F20-5
J2		
AMP	1-640445-5	1-640426-5
PANDUIT	HLSS-156-15	CE 156F20-15
J3	CCP151	CCP150
AMP	640456-5	640456-7
PANDUIT	HLSS-100-5	HLSS-100-7
J4		
AMP	640456-4	640440-4
PANDUIT	HLSS-100-4	CE 100F22-4-D

CCP Connector Pinout Configurations

Connector Number	Pin Number	Function		Connector Number	Pin Number	Function	
		CCP150	CCP151			CCP150	CCP151
J1	1	LINE	LINE	J2 (cont.)	12	-V3	+V3 FLOATING
	2	NO PIN	NO PIN		13	+V4	-V3 FLOATING
	3	NEUTRAL	NEUTRAL		14	+V4	+V4
	4	NO PIN	NO PIN		15	+V4	+V4
	5	GROUND	GROUND	J3	1	POWER FAIL	POWER FAIL
J2	1	+V1	+V2		2	RTN (V1, V3, V4)	NO PIN
	2	+V1	+V2		3	-V1 SENSE	RTN (V1, V2, V4)
	3	+V1	+V1		4	+V1 SENSE	REMOTE ON/OFF
	4	+V1	+V1		5	NO PIN	RTN (V1, V2, V4)
	5	RTN (V1, V3, V4)	+V1		6	REMOTE ON/OFF	N/A
	6	RTN (V1, V3, V4)	+V1		7	RTN (V1, V3, V4)	N/A
	7	RTN (V1, V3, V4)	RTN (V1, V2, V4)	J4	1	N/A	+V1 SENSE
	8	RTN (V1, V3, V4)	RTN (V1, V2, V4)		2	N/A	-V1 SENSE
	9	RTN (V1, V3, V4)	RTN (V1, V2, V4)		3	N/A	+V2 SENSE
	10	+V2 FLOATING	RTN (V1, V2, V4)		4	N/A	-V2 SENSE
	11	-V2 FLOATING	RTN (V1, V2, V4)				

Cherokee reserves the right to make changes to the product described without notice. No liability is assumed as a result of its use nor for any infringement on the rights of others.

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