

CHEROKEE INTERNATIONAL

DPS1200L2 1200W

Hot-Swap 48VDC, 12V Standby

48VDC for use in Distributed Power Systems

- SSI Compliant
- Hot-Swap N+1 Redundancy
- I²C Bus, EEPROM built-in
- Fan Speed Control
- Active Single Wire Current Share
- EMI class "B"
- Status indicators



Features

- No minimum load required
- Active current share
- SSI Compliant
- Collapsible handle
- I²C Bus
- Reverse airflow option

Benefit

- Eliminates the need for preload on system backplane
- Provide system stress balancing and increased reliability
- Supports new architecture for file server/workstations/datacom
- Reduces space and eliminates the need of tools for insertion, retention and extraction of the supply
- Allows power supply intelligence to the outside world

Key Market Segments & Applications

- Networking Equipment
- Bulk power rectification
- File Servers
- Workstations
- Industrial Applications

Specifications DPS1200L2, 1200 Watt

Input Voltage Range	90-264VAC AC, 47-63Hz	
Input Transient Protection	MOV's Gas Tube (Inrush current < 35A)	
EMI	Level Class B (FCC and CISPR compliant)	
Power Factor	0.99 at full load and nominal line	
Efficiency	85% typical at 180VAC (measured at full load)	
Output Power	1200W @ High-line (180-264VAC) & 800W @ Low-line (90-180VAC)	
	V1	V2 Standby output
Output Configuration	48V @ 24A	12.5V @ 4A
Line Regulation	+/- 0.1	+/- 0.05
Load Regulation	+/- 0.55	+/- 0.125
Output Ripple & Noise	250mv (p-p)	120mv (p-p)
Transient Response @ 50% Load step	+/- 1.45V	+/- 0.50V
Current Limit Protection	26.4 – 36A	4.1 – 6.5A
Over-voltage Protection (OVP)	52.1 – 55.0V	13.4 – 14.2V
Reverse Rating	24A	4A
Under-voltage Protection (UVP)	39.6 – 42V (sensed at the anode side)	10.0 – 10.43V (sensed at the anode side)
Thermal Shut Down	95°C at PFC heat sink and 100°C at Rectifier heat sink.	
*PSON#	To remotely turn on/off the supply. Active low signal which enables the 48VDC power rail	
PSKILL	To prevent arcing of the DC output when hot swapping. (Must be tied to the 12VSB rtn to turn on V1)	
ACOK (open collector signal)	Low = input > 85VAC, High = input < 75VAC	
PWOK (open collector signal)	This signal is active when AC fails or when any output falls out of regulation. High = Power OK, Low = Power not OK	
PRFL (open collector signal)	This signal is active when fan(s) not running properly. High = Fan is not operating within limits, Low = Fan is OK	
FAIL (open collector signal)	This signal alerts of a power supply failure. High = Power supplied failed Low = Power supply OK	

Notes: * Signals that can be defined as low true or high true use this convention: Signal # = Low true

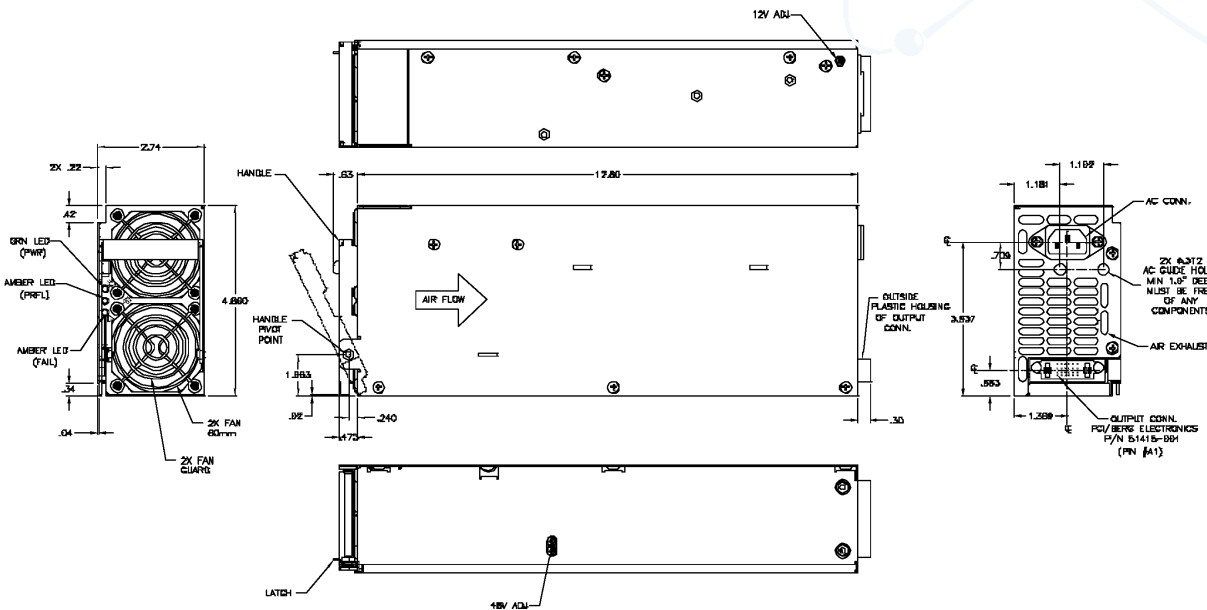
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Specifications (continued)	DPS1200L2, 1200 Watt
*PRESENT#	This signal is used to sense the number of power supplies in the system. Low = Present, High = Not present
FANC	This signal is a fan speed and shut down control signal by using external variable voltage (0 – 12VDC).
LED Indicators	See LED indicator chart for power supply conditions.
Cooling	Internal Fan (0-50°C)
Shock & Vibration	Per MIL STD-810F
Weight	7.0lbs
Dimensions	4.86" H x 2.74" W x 13.74" L (123 mm H x 69.59mm W x 348.74mm L)

Notes: * Signals that can be defined as low true or high true use this convention: Signal # = Low true



Output Connector Pin-Out (Berg P/N 51415-00)

Row	Pin- 1	Pin-2	Pin-3	Pin-4	Pin-5	Pin-6
D	12VSB	12VSB Rtn	48LS	N/U	SCL	A0
C	12VSB	12VSB Rtn	ACOK#	PRFL	Reversed	A1
B	12VSB	12VSB Rtn	PSON#	PSKILL	SDA	A2
A	FANP	Reserved	PRESENT#	PWR OK	FAIL	FANC
Power Blades						
P1			P2			
48VDC Return			48VDC			

LED Indicator Chart

Power Supply Condition	PWR (Green)	PRFL (Amber)	FAIL (Amber)
No AC power to all PSU	OFF	OFF	OFF
No AC power to this PSU only	OFF	OFF	ON
AC present / Standby output ON	Blinking	OFF	OFF
Power supply DC outputs ON and OK	ON	OFF	OFF
Power Supply Failure	OFF	OFF	ON
Current Limit on 48VDC output	ON	OFF	Blinking
Predictive Failure	ON	Blinking / Latched	OFF

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