

Features:

- 1200 Watts with a Power Density of 16W/in³
- 12V Power for Powering Non-Isolated POL Converters
- Hot Swap / N+1 Redundant
- Active Single Wire Current Sharing
- Remote On/Off Control
- International Safety Approvals - UL, CSA, CE Mark (LVD) TUV
- Measures 11.20 x 4.00 x 1.65" / 284.5 x 101.6 x 41.9mm



FEATURES	BENEFITS
High Power Density 16W/in ³	Minimizes space within your system
1U High Form Factor	Supports low profile applications
5VSB Standby Voltage	Provides voltage source for housekeeping and monitoring circuitry
I ² C Digital Control & Monitoring	Cost effective power scalability

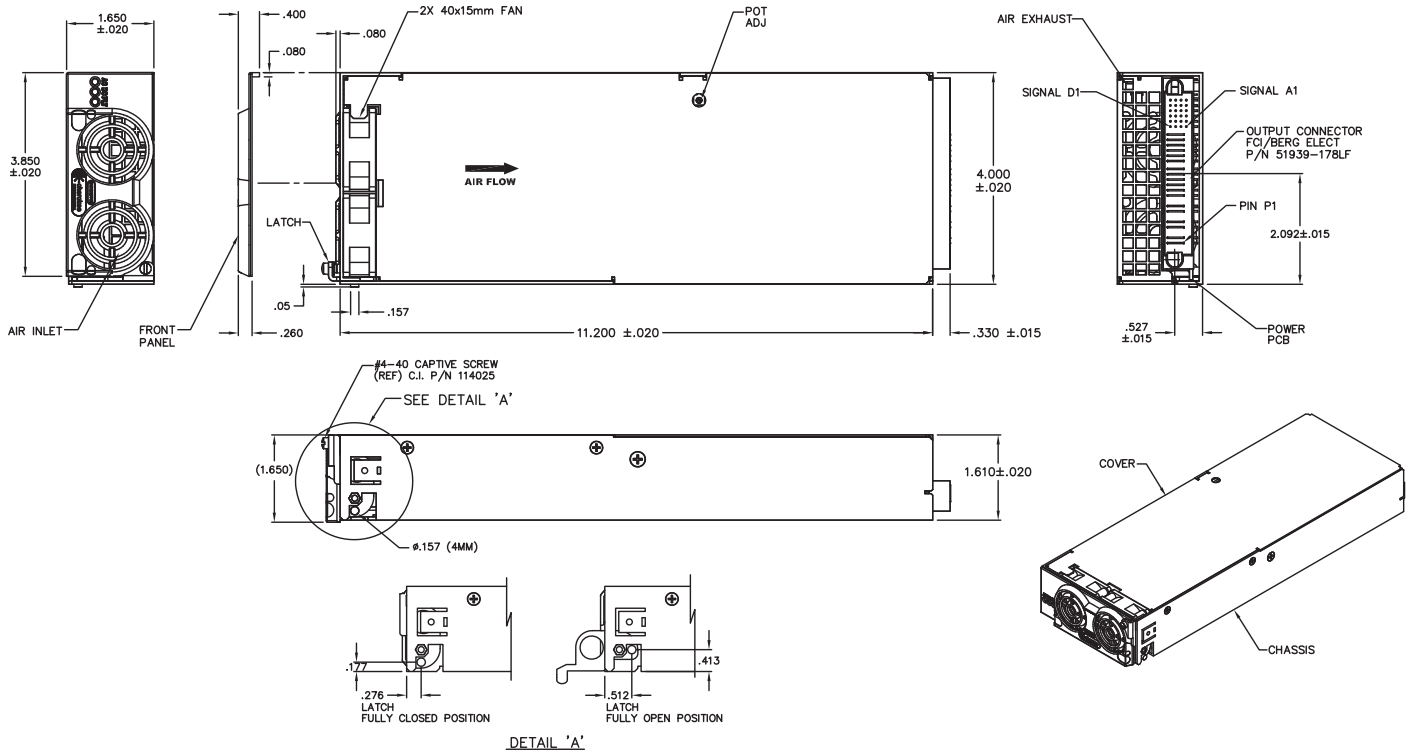
KEY MARKETS & APPLICATIONS

- Distributed Power
- Blade Servers
- Mid-End Servers
- Network Equipment
- Network Attached Storage
- Storage Area Networks

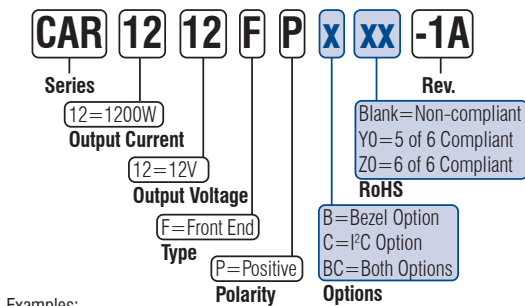
SPECIFICATIONS	1200 Watt + 12V Front End Power Supply
Input Voltage Range	85-264 VAC, 47-63 Hz
Input Current Maximum	12A @ 100VAC, 8.1A @ 180 VAC, full Load
Inrush Current	35A max. cold start (per ETS 300 132-1 and bellcore specifications)
Input Protection	Single Fused (Line) 20 Amp / 250 VAC Type 3AB Axial
Power Factor	0.99 typical complies with IEC555, EN60555-2, EN61000-3-2
Efficiency	89% typical at 230 VAC Full Load Operation, 85% Typical @ 100 VAC Full Load Operation
Output Power	1200W at High Line Operation (230 VAC), Derate to 1000W; 1250W available without Bezel (104A)
Output Voltage Range	+12 VDC (±5%)
Output Current	100A @ +12 VDC for High Line Operation (230 VAC), reduced to 83.5A at Low Line Operation (110 VAC)
Voltage Programming	±5% of Vout nominal. Analog input signal. 11.4V + (Vprog x 0.3V) where Vprog = 0V to 4V
Standby Bias Voltage	5VSB@500mA, reference to +12VDC Return
Voltage Regulation	±2% of Vnom for any combination of line, load and temperature
Output Ripple & Noise	ETS300 132-2, 32dBnrc. Bandwidth: 25Hz - 20kHz. 2mVrms pk-pk with 0.1µF ceramic and 10µF electrolytic caps
Transient Response	5% max deviation Recovery time 300µs @ 50% load step and di/dt < 1A/µs
Switching Frequency	400kHz (output)
Hold-Up Time	20ms at 1000W (typical) @ 100VAC; 16.7ms at 1250W @ 220VAC
Remote On/Off	ON if >3V or open; OFF if <1V (max. sink 1mA) Open collector type
Current Limit Protection	110-135% of Iout Nominal
Short Circuit Protection	Self protected with auto recovery
Over Voltage Protection	+14.5-15.5 VDC max, latched. Reset condition by recycling AC Input or toggling remote on/off
Operating Temperature	-10°C to +70°C. power derating above 55°C at 2.5% per °C
Over Temperature Protection	Non latching; protection active at 110°C internal temperature, restart at 95°C (typical)
EMI	FCC-B & EN55022-B with specified filter, GR-1089-CORE
LED Indicators	Green = AC OK & DC OK, Red = Fault
Analog Status & Control	Voltage Programming (V Prog), Load sharing (I Share), Remote ON/OFF, Current Monitor (I Monitor), Over temperature (Temp Warning), Fault, PS Present, Module Enable
Digital Status & Control	I ² C Option, see detailed specification for details
Shock & Vibration	IEC68-2-27, MIL-STD-810E, Telecordia GR-63-CORE
Dimensions	11.20 x 4.00 x 1.65" / 284.5 x 101.6 x 41.9mm; without Bezel height= 1.61" / 40.9mm
Weight	3.0 lbs
Safety Approvals	IEC 950 per EN60950, UL60950, CSA 22.2-950, CE Mark (LVD) TUV
Options	I ² C Signals, Bezel

Specifications listed assume 25°C Ambient Operating Temperature and Full Load Operation unless otherwise specified. This product is qualified for use in OEM equipment and is not appropriate for stand-alone operation. The information contained within this specification is believed to be true and correct at the time of publication, however, Cherokee International accepts no responsibility for consequences arising from printing errors or inaccuracies. The information and specifications contained herein are subject to change without notice.

OUTLINE DRAWING

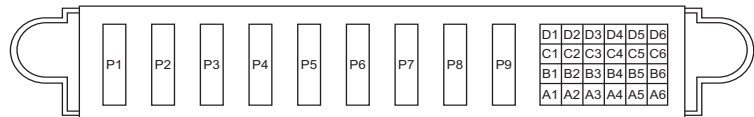


PART NUMBER DEFINITION GUIDE:



Examples:
 CAR1212FPY0-1A:
 1200W/12V Front End, 5 of 6 RoHS
 CAR1212FPBZ0-1A
 1200W/12V Front End, Bezel, 6 of 6 RoHS
 CAR1212FPCY0-1A
 1200W/12V Front End, I2C, 5 of 6 RoHS
 CAR1212FPBCZ0-1A
 1200W/12V Front End, I2C, Bezel, 6 of 6 RoHS

CONNECTOR DRAWING



Connector is FCI / Berg Part No. 51939-178
 Mates with FCI / Berg Part No. 51866-025 (Right Angle Mounting), or 51940-117 (Straight Mounting)

PIN OUT INFORMATION

A1	Vstb (5V)	B4	PS Present	D1	V Prog	P4	+V1 Return
A2	Vstb (5V) Return	B5	Serial Data Line	D2	OVP/OTP Test Point	P5	+V1 Return
A3	Output Return	B6	Serial Data Clock	D3	Remote On/Off	P6	+V1 Return
A4	Write Protect	C1	I Share	D4	DC OK	P7	+V1 Output
A5	Remote Sense (+)	C2	N/C	D5	AC OK	P8	+V1 Output
A6	Remote Sense (-)	C3	Temp Warning	D6	Interrupt	P9	+V1 Output
B1	Fault	C4	I2C Address (A0)	P1	Line		
B2	I Monitor	C5	I2C Address (A1)	P2	Neutral		
B3	Module Enable	C6	I2C Address (A2)	P3	Chassis		