

Features:

- 1200 Watts in 1U
- Ultra High Power Density of 19W/in³
- Active Current Sharing (Single Wire)
- Remote on/off, Remote Sense, Voltage Program & Current Share Control Circuits
- Constant Current
- Current, Voltage, AC OK, DC OK & Temperature OK
- Microprocessor based design allows for I2C communication
- Optional Universal / 5-Bay 19" Rack Delivers 6kW of Total Power
- International Safety Approvals - UL, CSA, CE Mark (LVD), TUV



FEATURES	BENEFITS
High Power Density 19W/in ³	Leaves plenty of room for your applications
System Scalability up to 6000W	Allows flexibility with minimum investment
1U x 2U High Form Factor	Minimize space required for power needs
Load Sharing & Fault Tolerant	Excellent reliability in N+1 operation
5VSB Standby Voltage	Voltage for external housekeeping and monitoring circuitry
I2C Digital Control & Monitoring	Ideal for monitoring, housekeeping and control

KEY MARKETS & APPLICATIONS	
■ Distributed Power	■ Blade Servers
■ Mid-end servers	■ Network Equipment
■ Network Attached Storage	
■ Automatic Test Equipment	
■ Storage Area Networks	

SPECIFICATIONS	1200 Watt +48V Front End Power Supply
Input Voltage Range	85-264 VAC, 47-63 Hz
Input Current Maximum	12.75A @ 100VAC, 7.9A @ 180 VAC, full load
Inrush Current	40A max. cold start (per ETS 300 132-1 and bellcore specifications)
Input Protection	Dual Fused (Line & Neutral) 20 Amp / 250 VAC Type 3AB Axial
Power Factor	0.99 typical complies with IEC555, EN60555-2, EN61000-3-2
Efficiency	91% typical at 230 VAC Full Load Operation, 85% Typical @ 90 VAC Full Load Operation
Output Power	1200W at High Line Operation (230 VAC), Derate to 1000 W at Low Line Operation (90 VAC)
Output Voltage Range	+48 VDC (±10%)
Output Current	25A @ +48 VDC for High Line Operation (230 VAC), reduced to 20.8A at Low Line Operation (90VAC)
Voltage Programming	Vout = 43.2V + 3.3x (Vprog - 0.364)V where 0.364 < Vprog < 3.27V
Standby Bias Voltage	5VSB@500mA, reference to +48VDC Return
Voltage Regulation	±2% of Vnom for any combination of line, load and temperature
Output Ripple & Noise	ETS300 132-2, 32dBnc. Bandwidth: 25Hz - 20kHz. 2mVrms pk-pk with 0.1µF ceramic and 10µF electrolytics caps
Transient Response	5% max deviation Recovery time 300µs @ 50% load step and di/dt < 1A/µs
Switching Frequency	200kHz (input) / 400kHz (output)
Hold-Up Time	20ms at 1KW (typical) @ 90VAC
Remote On/Off	ON if >3V or open; OFF if <1V (max. sink 1mA) Open collector type
Current Limit Protection	110-130% of Iout Nominal
Short Circuit Protection	Self protected with auto recovery
Over Voltage Protection	+60 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 or at rack level, 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	I2C Option, see detailed specification for details
Shock & Vibration	IEC68-2-27, MIL-STD-810E, Telcordia GR-63-CORE
Dimensions	11.02 x 3.44 x 1.65" / 284.5 x 87.4 x 41.9mm
Weight	2.8 lbs
Safety Approvals	IEC 950 per EN60950, UL60950, CSA 22.2-950, CE Mark (LVD), TUV
Options	I2C Signals, Bezel

rev 100506

www.lineagepower.com/oem

Lineage Power

3000 Skyline Dr.
Mesquite, TX 75149
Phone: (972) 284-2000

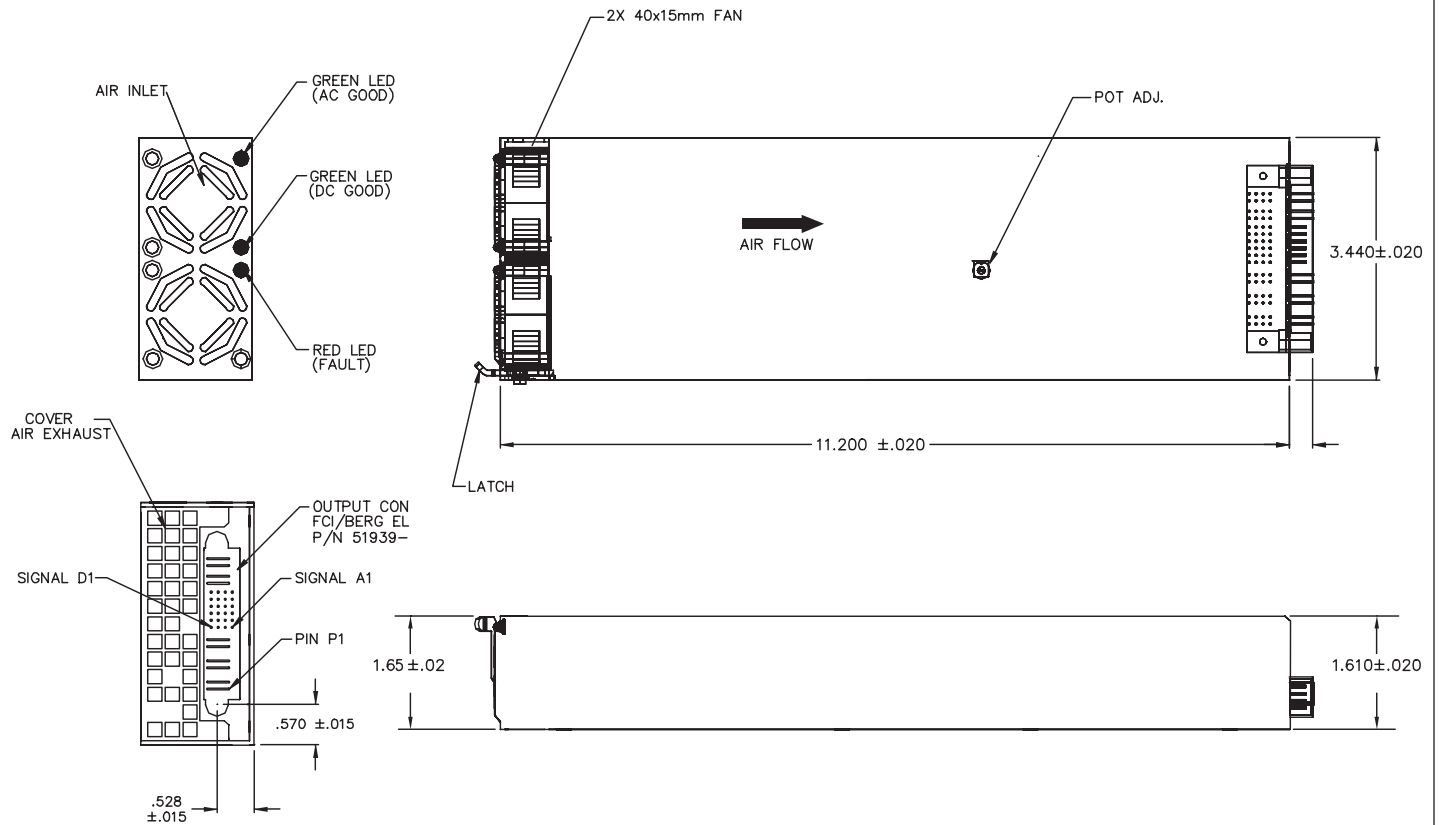
Lineage Power

2841 Dow Avenue
Tustin, CA 92780 USA
Phone: (714) 544-6665

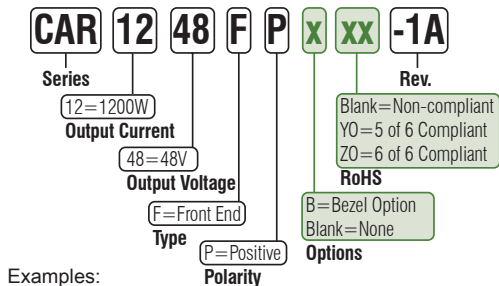
Lineage Power (China)

1353 Chenqiao Road, Shanghai Sengpu Industrial Park
Shanghai, 201401 China
Phone: 021 6710 8910

OUTLINE DRAWING



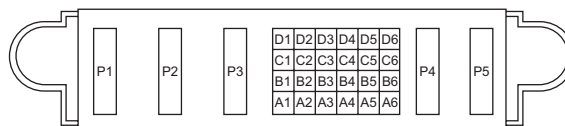
PART NUMBER DEFINITION GUIDE



Examples:
 CAR1248FPZO-1A
 1200W/48V Front End, 6 of 6 RoHS
 CAR1248FPBYO-1A
 1200W/48V Front End, Bezel, 5 of 6 RoHS
 CAR1248FPB-1A
 1200W/48V Front End, Bezel

PIN OUT INFORMATION

A1	VSB 5V	B4	PS Present	D1	V Prog	P4	Vout
A2	VSB 5V Return	B5	Serial Data Line	D2	OVP Test Point	P5	Vout Return
A3	Signal RTN	B6	Serial Data Clock	D3	Remote On/Off		
A4	Write Protect	C1	I Share	D4	DC OK		
A5	Remote Sense (+)	C2	N/C	D5	AC OK		
A6	Remote Sense (-)	C3	Temp Warning	D6	Interrupt		
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		



Connector is FCI / Berg
 Part # 51939-070
 Mates with FCI / Berg
 Part # 51915-050

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9