Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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GPFC110 Commercial

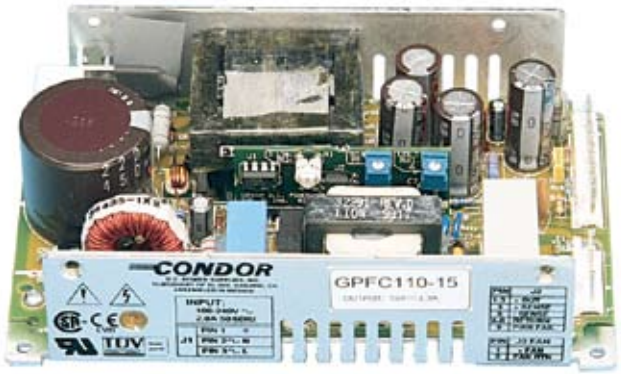
110 Watt Global Performance Switchers

110 WATT GLOBAL PERFORMANCE SWITCHERS

CONDOR

FEATURES:

- **3.1 watts/cu.in. power density**
- **Compact size (6.3" x 3.75" x 1.62"; meets 1U height)**
- **Power factor corrected to IEC 1000-3-2 Class A**
- **Less than 300 µA leakage**
- **EMI compliance to CISPR 22, FCC Class B**
- **Approved to UL1950, IEC950 and CSA 22.2 No. 950**
- **2-year warranty**
- **CE marked to LVD**
- **RoHS Compliant Model Available (G suffix)**



SPECIFICATIONS

Ac Input
85-264 Vac, 47-63 Hz single phase.

Input Current
Maximum input current 2.3 A at 90 Vac, 60 Hz with full rated load. Input current harmonic content meets the requirements of IEC1000-3-2.

Hold-up Time
25 ms minimum from loss of ac input at full load, nominal line (115 Vac).

Output Power
110 W fan cooled, 75 W convection. Peak ratings are for 60 s maximum duration, 10% duty cycle.

Total Regulation
Total regulation is the maximum deviation from the nominal voltage for all steady-state loading conditions.

Overload Protection
Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit. Recovery after fault is automatic.

Output Noise
0.5% rms, 1% pk-pk, 20 MHz Bandwidth, differential mode. Measured with noise probe directly across output terminals of the power supply.

Transient Response
500 µs typical response time for return to within 0.5% of final value for a 50% load step change, $\Delta i/\Delta t < 0.2$ A/µs. Maximum voltage deviation is 3.5%. Load must not go below stated minimum.

Remote Sense
Provided as a standard feature. Capable of compensating for 0.25 V total of cabling losses in voltage. Open sense lead protection.

Overvoltage Protection
OVP crowbar reduces output voltage below nominal rating in less than 50 ms.

Voltage Adjustment: Main output ±5%.

Input Protection
Internal ac fuse provided on all models. Fuse does not blow on overload or short circuit—fuse blows only if catastrophic failure occurs in the unit.

EMI/EMC Compliance
All models include built-in EMI filtering to meet the EMC requirements below.

EMI SPECIFICATIONS	COMPLIANCE LEVEL
Conducted Emissions	EN55022 Class B; FCC Class B
Static Discharge	EN61000-4-2, 6 kV contact, 8 kV air
RF Field Susceptibility	EN61000-4-3, 3 V/meter
Fast Transients/Bursts	EN61000-4-4, 2 kV, 5 kHz
Surge Susceptibility	EN61000-4-5, 1 kV diff., 2 kV com.
Line Frequency Harmonics	EN61000-3-2 Class A

Inrush Current
Inrush 240 Vac is less than 37 A, averaged over the first ac half-cycle under cold start conditions. Limiting provided by internal thermistors.

Fan Output
An additional output, same as Vout, suitable for powering a dc fan is included in all models. The output is protected by an internal resistor in the event of an overload.

Power Fail
TTL or CMOS compatible output goes low (<0.5 V) 8 ms before output voltage drops more than 4% below nominal voltage upon loss of ac power. The signal is factory set to trip when input power can no longer sustain the output.

Temperature Coefficient
0.03%/°C typical on all outputs.

Environmental
Designed for 0 to 50°C operation at full rated output power; derate output current and total output power by 2.5% per °C above 50°C. See Environmental and Packaging Specifications on the next page.

Commercial Safety Approvals
All models are approved to UL1950, CSA22.2 No. 950-95, IEC950, EN60950. CB certificate available. Exceeds FCC and CISPR22 Class B conducted emissions requirement

All specifications are typical at nominal input, full load at 25°C unless otherwise stated

Commercial Model	Output No.	Output	Output Minimum (A)	Output Maximum (A)	Output Maximum (B)	Total Regulation	OVP Setpoint	Notes
GPFC 110-5	1	5.1 v	0 A	11 A	15 A	2%	6.2 ± 0.6 V	C
GPFC 110-12	1	12 V	0 A	6.7 A	9.2 A	2%	14 ± 1.1 V	C
GPFC 110-15	1	15 V	0 A	5.3 A	7.3 A	2%	18.5 ± 1.5 V	C
GPFC 110-24	1	24 V	0 A	3.4 A	4.6 A	2%	28 ± 2.5 V	C
GPFC110-28	1	28 V	0 A	2.9 A	3.9 A	2%	34 ± 2.8 V	C
GPFC110-48	1	48 V	0 A	1.7 A	2.3 A	2%	55 ± 4 V	C

Notes:
A. With unrestricted convection cooling.
B. With 26cfm airflow.
C. Add "G" suffix to part number for RoHS compliant model.

GPFC110 MECHANICAL SPECIFICATIONS

INPUT:

J1

AMP P.C.B. HEADERP/N 640445-5
PIN 1) AC GROUND
PIN 2) N/C
PIN 3) AC NEUTRAL
PIN 4) N/C
PIN 5) AC LINE

MATING CONNECTOR AMP P/N
HOUSING 640250-5
CONTACT 770476-1

OUTPUT:

J2

AMP P.C.B. HEADER P/N 1-640445-9
PINS 1-3) +Vout
PIN 4) +SENSE
PIN 5) -SENSE
PIN 6-8) RETURN
PIN 9) PWR FAIL

MATING CONNECTOR AMP P/N
HOUSING 640250-9
CONTACT 770476-1

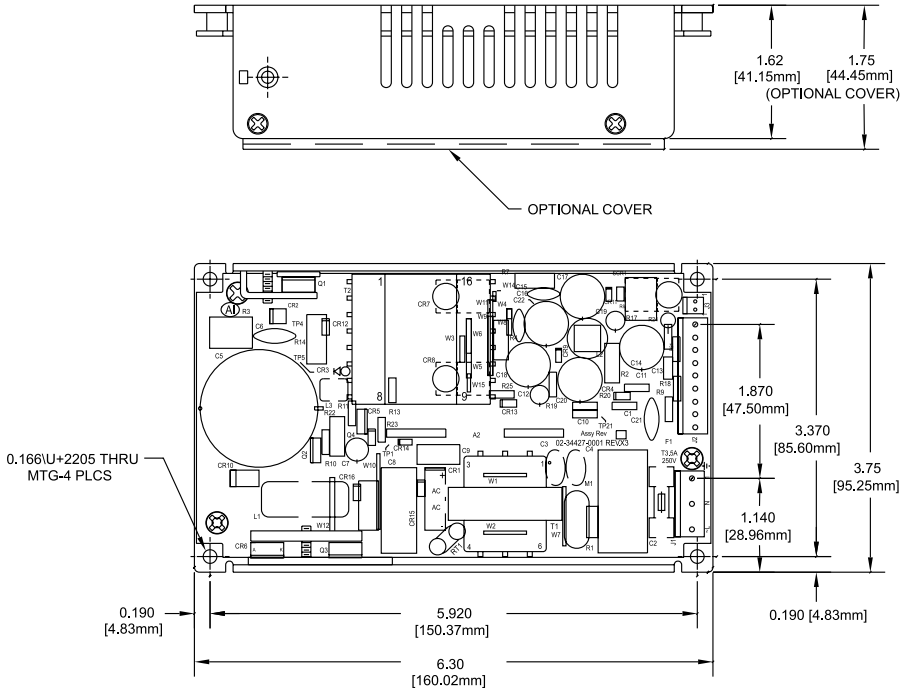
FAN J3

AMP P.C.B. HEADER P/N 640456-2
MATING CONNECTOR P/N 640621-2
PIN 1) -
PIN 2) +

OPTIONAL COVER: 08-30466-2110
5A MAXIMUM RECOMMENDED CURRENT PER CONNECTOR PIN.

WEIGHT: 1.9 LBS [0.86kg] MAX.

TOLERANCES: X.XX=0.030 [0.76mm]
X.XXX=0.010 [0.25mm]



ENVIRONMENTAL SPECIFICATIONS	OPERATING	NON-OPERATING
Temperature (A)	See Individual Specs.	-40 to +85°C
Humidity (A)	0 to 95% RH	0 to 95% RH
Shock (B)	20 g_{pk}	40 g_{pk}
Altitude	-500 to 10,000 ft	-500 to 40,000 ft
Vibration (C)	1.5 g_{rms}, 0.003 g^2/Hz	5 g_{rms}, 0.026 g^2/Hz

A. Units should be allowed to warm up/operate under non-condensing conditions before application of power.
B. Shock testing—half-sinusoidal, 10 ± 3 ms duration, ± direction, 3 orthogonal axes, total 6 shocks.
C. Random vibration—10 to 2000Hz, 6dB/octave roll-off from 350 to 2000Hz, 3 orthogonal axes. Tested for 10 min./axis operating and 1 hr./axis non-operating.

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