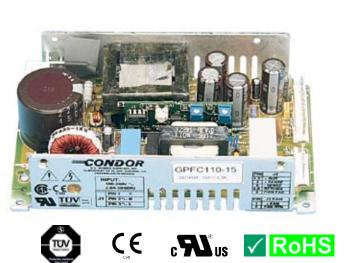


110 WATT GLOBAL PERFORMANCE SWITCHERS

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
- (€ marked to LVD
- RoHS Compliant Model Available (G suffix)



SPECIFICATIONS

Ac Input

85-264 Vac, 47-63 Hz sir	ngle 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

=CONDOR

GPFC110 Commercial

110 Watt Global Performance Switchers

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%	$6.2\pm0.6V$	С
GPFC 110-12	1	12 V	0 A	6.7 A	9.2 A	2%	14 ± 1.1 V	С
GPFC 110-15	1	15 V	0 A	5.3 A	7.3 A	2%	18.5 ± 1.5 V	С
GPFC 110-24	1	24 V	0 A	3.4 A	4.6 A	2%	$28\pm2.5V$	С
GPFC110-28	1	28 V	0 A	2.9 A	3.9 A	2%	34 ± 2.8 V	С
GPFC110-48	1	48 V	0 A	1.7 A	2.3 A	2%	55 ± 4 V	С

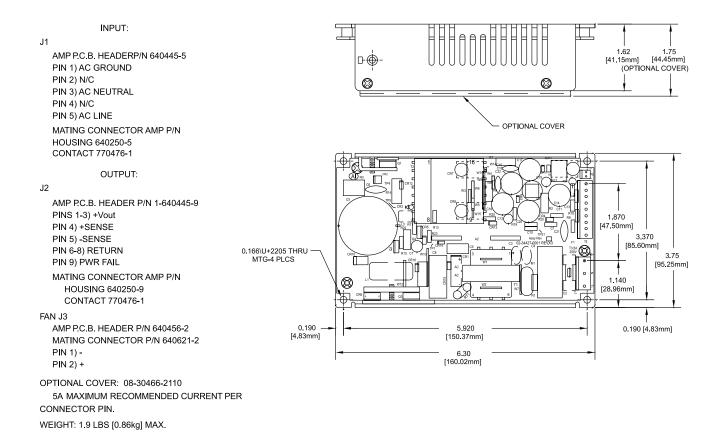
Notes:

A. With unrestricted convection cooling.

B. With 26cfm airflow.

C. Add "G" suffix to part number for RoHS compliant model.

GPFC110 MECHANICAL SPECIFICATIONS



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 g²/Hz	5 g _{rms′} 0.026 g²/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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