

GLOBAL PERFORMANCE SWITCHERS

FEATURES:

- 115 Watts of continuous power with forced air
- Power factor corrected
- 74-81% efficiency
- Small package 3.3" x 5.25" x 1.5" inches
- Power fail warning, remote sense
- Optional cover with cooling fan
- Medical Approval to UL2601-1, CSA-C22.2 No. 601.1, EN60601-1
- RoHS Compliant Model Available (G suffix)



CONDOR
DC Power Supplies



SPECIFICATIONS

Ac Input 85-264 Vac, 47-63 Hz single phase	Transient Response Main Output 500 μ s 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/ μ s. Maximum voltage deviation is 3.5%.																		
Output Power Continuous rating is 80 W with unrestricted natural convection, or 115 W with forced convection. All models capable of 110% of rated power for 60 sec., 10% duty cycle maximum.	Minimum Load No minimum load required to maintain output specifications. An abrupt change in output current from > 90% to < 2% load may cause a false triggering of the power fail signal.																		
Input Current Maximum input current at 90 Vac, 60 Hz with full rated load is 1.7 A. Input current harmonic content meets the requirements of IEC1000-3-2 for all load conditions at 230 Vac input. Active input circuitry provides high power factor of .96 min, .99 typical.	Voltage Adjustment Main output $\pm 5\%$.																		
Inrush Current Inrush 240 Vac is less than 37 A, averaged over the first ac halfcycle under cold start conditions. Limiting provided by internal thermistors.	Temperature Coefficient 0.03%/°C typical on all outputs.																		
Holdup Time 25 ms minimum from loss of ac input at full load.	Thermal Shutdown Provided as a standard feature. Designed to protect unit from prolonged over temperature.																		
Power Fail TTL / 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 before there is insufficient power stored in the primary to sustain the output. Signal can sink 1.6 mA or source 400 μ A at 2.7 V (Fan-out = 1).	Fan Output An additional 12 Vdc (nominal 10.5 V), 100 mA output suitable for powering a dc fan is included in all models. The fan output is referenced to +out. Due to high pk-pk noise and low regulation, it is not recommended that this output be used for any other purpose.																		
Efficiency 74 to 81% depending upon model	Input Protection Internal ac fuse provided on all models. Fuse does not blow on overload or short circuit -- fuse blows only if a catastrophic failure occurs in the unit.																		
DC Output Specification Total regulation is the maximum deviation from the nominal voltage for all steady state loading conditions. Peak ratings are for 60 s maximum duration, 10% duty cycle. Consult factory for application assistance.	EMI/EMC Compliance All models include built-in EMI filtering to meet the following emissions requirements:																		
Remote Sense Provided as a standard feature on all models. Capable of compensating for 0.25 V total of cabling losses.	<table border="1"> <thead> <tr> <th>EMI SPECIFICATIONS</th><th>COMPLIANCE LEVEL</th></tr> </thead> <tbody> <tr> <td>Conducted Emissions</td><td>EN55011 Class B; FCC Class B</td></tr> <tr> <td>Static Discharge</td><td>EN61000-4-2, 6 kV contact, 8 kV air</td></tr> <tr> <td>RF Field Susceptibility</td><td>EN61000-4-3, 3 V/meter</td></tr> <tr> <td>Fast Transients/Bursts</td><td>EN61000-4-4, 2 kV, 5 kHz</td></tr> <tr> <td>Surge Susceptibility</td><td>EN61000-4-5, 1 kV diff., 2 kV com.</td></tr> <tr> <td>Line Frequency Harmonics</td><td>EN61000-3-2 Class A</td></tr> <tr> <td>Conducted RF Susceptibility</td><td>EN61000-4-6, 3 V</td></tr> <tr> <td>Voltage Dips and Interruptions</td><td>EN61000-4-11, Consult factory for more details.</td></tr> </tbody> </table>	EMI SPECIFICATIONS	COMPLIANCE LEVEL	Conducted Emissions	EN55011 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	Conducted RF Susceptibility	EN61000-4-6, 3 V	Voltage Dips and Interruptions	EN61000-4-11, Consult factory for more details.
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Overload Protection Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit. Recovery after fault is automatic. Consult factory for specific condition limits.	Leakage Current 90 μ A normal conditions (132 Vac @ 60 Hz input) or 250 μ A (264 Vac) single fault.																		
Overvoltage Protection Built in on all models - See voltage and current chart for individual model output limits. When OVP fires, the output converter stops providing input power to output. Output voltage decay is dependent upon loading.	Medical Safety All models are Certified to be in compliance with the applicable requirements of UL 2601, CSA 22.2 No. 601.1-M90, IEC 601-1 (1988), EN 60601-1: 1990. (Consult factory for approval status)																		
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.																			

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

