

PERFORMANCE MEDICAL SWITCHERS

FEATURES:

- Wide-range ac input 85-264 Vac
- 2-year warranty
- Conducted EMI exceeds FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- Commercial Approved to UL1950, IEC950, EN60950 and CSA22.2-234 L3
- Medical Approved to UL2601-1, IEC601-1 and CSA22.2 No. 601.1
- Complies with EN61000-3-2 Class A
- RoHS Compliant Model Available (G suffix)



SPECIFICATIONS

Ac Input 85-264 Vac, 47-63 Hz single phase.	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.																
Input Current Maximum input current at 120 Vac, 60 Hz with full rated output load: 2.3 A	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%. Startup/shutdown overshoot less than 3%.																
Hold-Up Time 20 ms minimum from loss of ac input at full load, nominal line (115 Vac).	Remote Sense Provided as a standard feature on single-output models.																
Output Power 80 W continuous, 110 W with air flow. Peak ratings are for 60 s maximum duration, 10% duty cycle. During peak load condition, output regulation may exceed total regulation limits.	Voltage Adjustment Built-in potentiometer adjusts voltage $\pm 5\%$ on outputs 1 & 2.																
Overload Protection Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit on outputs 1 & 2; foldback type on outputs 3 & 4. Recovery after fault is automatic. Factory set to begin power limiting at 120 W. See output ratings chart for additional notes or conditions.	EMI/EMC Compliance All models include built-in EMI filtering to meet the following emissions requirements:																
Overvoltage Protection Main outputs: 124% $\pm$ 12% typical.	<table border="1"> <thead> <tr> <th>EMI SPECIFICATIONS</th><th>COMPLIANCE LEVEL</th></tr> </thead> <tbody> <tr> <td>Conducted Emissions GPC80</td><td>EN55022 Class B; FCC Class B</td></tr> <tr> <td>Conducted Emissions GPM80</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> </tbody> </table>	EMI SPECIFICATIONS	COMPLIANCE LEVEL	Conducted Emissions GPC80	EN55022 Class B; FCC Class B	Conducted Emissions GPM80	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
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Efficiency 70% at full rated load, nominal input voltage, depending on model and load distribution.	Commercial Leakage Current 0.7 mA 254 Vac @ 60 Hz input.																
Input Protection Internal ac fuse provided. Designed to blow only if a catastrophic failure occurs in the unit.	Commercial Safety Approved to UL1950, CSA22.2 No. 234 Level 3, IEC950 and EN60950. UL file #E135803 commercial; CSA #LR46516 all. The output(s) are intended for safety earthed Signal Output and Intermediate Circuits only. All dc outputs are SELV under normal and single fault conditions.																
Inrush Current Inrush is limited by internal thermistors. Inrush at 240 Vac under cold start conditions will not exceed 34 A.	Medical Leakage Current 35 μ A 254 Vac @ 60 Hz input.																
Temperature Coefficient 0.03%/°C typical on all outputs.	Medical Commercial Safety Approved to UL2601-1, CSA-C22.2 No. 601.1 Level 3 and IEC601.1. UL file E116994; CSA #LR46516. The output(s) are intended for safety earthed Signal Output and Intermediate Circuits only. The output(s) are not acceptable for patient connection without additional isolation. All dc outputs are SELV under normal and single fault conditions.																
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 next page.																	
Power Fail (optional) TTL- or CMOS-compatible output goes low (< 0.5 V) 5 ms before output voltage drops more than 4% below nominal voltage upon loss of ac power. The signal is factory set to trip on 84 to 94 Vac brown-out depending upon incoming line impedance and distortion. Other settings are available to the user through adjustment of built-in potentiometer (consult factory for assistance). For Power fail option, add -PF after model number.																	

