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GPM55-12](#)

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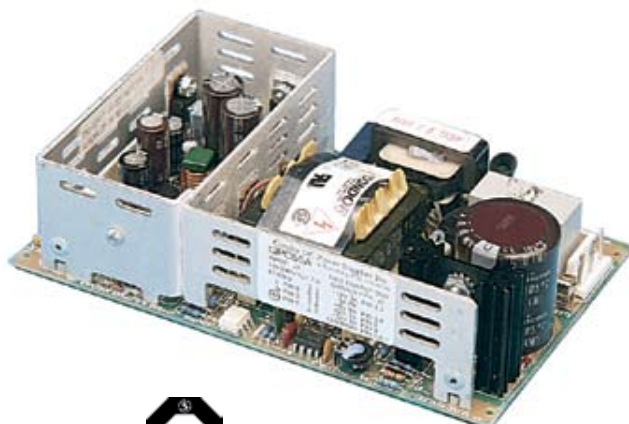


GPC55 Commercial/GPM55 Medical 55 Watt Global Performance Switchers

GLOBAL PERFORMANCE SWITCHERS

FEATURES:

- Wide-range ac input 85-264 Vac
- 2-year warranty
- Conducted EMI complies with FCC Class B and CISPR 22 Class B (Commercial models) and CISPR 11 Class B (Medical models)
- Commercial Approved to UL1950, IEC950 and CSA22.2-234 L3
- Medical Approved to UL2601-1, IEC601-1 and CSA22.2 No. 601
- Complies with EN61000-3-2 Class A
- Single and multiple outputs
-  marked to LVD
- 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: 1.7 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). | Voltage Adjustment Built-in potentiometer adjusts voltage $\pm 5\%$ on outputs 1 & 2. | | | | | | | | | | | | | | | | |
| Output Power 55 W continuous, 70 W peak. Peak ratings are for 60 s maximum duration, 10% duty cycle. During peak load condition, output regulation may exceed total regulation limits. | EMI/EMC Compliance All models include built-in EMI filtering to meet the following emissions requirements: | | | | | | | | | | | | | | | | |
| 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. See output ratings chart for additional notes or conditions. Factory set to begin power limiting at approximately 75 W. | <table border="1"> <thead> <tr> <th>EMI SPECIFICATIONS</th> <th>COMPLIANCE LEVEL</th> </tr> </thead> <tbody> <tr> <td>Conducted Emissions GPC55 Static</td> <td>EN55022 Class B; FCC Class B</td> </tr> <tr> <td>Conducted Emissions GPM55</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 GPC55 Static | EN55022 Class B; FCC Class B | Conducted Emissions GPM55 | 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 |
| EMI SPECIFICATIONS | COMPLIANCE LEVEL | | | | | | | | | | | | | | | | |
| Conducted Emissions GPC55 Static | EN55022 Class B; FCC Class B | | | | | | | | | | | | | | | | |
| Conducted Emissions GPM55 | 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 | | | | | | | | | | | | | | | | |
| Overvoltage Protection Main outputs: 124% + 12% | Commercial Leakage Current 0.7 mA 254 Vac @ 60 Hz input. | | | | | | | | | | | | | | | | |
| Efficiency 70% at full rated load, nominal input voltage, depending on model and load distribution. | Commercial Safety Approved to UL1950, CSA22.2 No. 234 Level 3, IEC950 and EN60950. UL file #E135803 commercial; CSA #LR46516 all models. All dc outputs are SELV under normal and single fault conditions. | | | | | | | | | | | | | | | | |
| Input Protection Internal ac fuse provided. Designed to blow only if a catastrophic failure occurs in the unit. | Medical Leakage Current 35 μ A 254 Vac @ 60 Hz input. | | | | | | | | | | | | | | | | |
| Inrush Current Inrush is limited by internal thermistors. Inrush at 240 Vac under cold start conditions will not exceed 34 A. | Medical Safety Approved to UL2601, CSA22.2 No. 601 Level 3 and IEC601. 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. | | | | | | | | | | | | | | | | |
| 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 next page. | | | | | | | | | | | | | | | | | |

