

GSC20 Commercial

20 Watt Single Output Global Performance Switchers



FEATURES:

- Industry's smallest 20 W switcher
- Business-card size (2.0 x 3.5 x 0.71")
- Approved to UL60950, CSA-C22.2 No. 60950, EN60950, IEC60950 with CB Certificate
- EMI FCC Class B, CISPR22B
- Overvoltage protection standard
- **CE** marked to LVD

SPECIFICATIONS:

Ac Input

90-264 Vac, 47-63 Hz single phase.

Input Current

Maximum input current at minimum 120 Vac, 60 Hz with full rated output load is 0.6 A.

Hold-up Time

15 ms minimum from loss of ac input at full load, nominal line (115 Vac).

Output Power

Normal continuous output power is 20 W, 24 W peak for 60 s maximum duration, 10% duty cycle. Factory set to begin power limiting at approximately 28 W.

Output Regulation

Regulation from initial setpoint measured by changing load from 5% load to 50% load or 50% load to full load in either direction. Initial setpoint tolerance is measured at 50% load. A minimum load of 5% of the output current is required to maintain proper regulation.

Overload Protection

Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit

Output Noise

0.5% rms, 1% pk-pk, 20 MHz bandwidth, differential mode. Measured with scope probe directly across output terminals of the power supply with load terminated with 0.1 uF capacitor.

Transient Response

Main output: 750 μ s typical response time for return to within 0.5% of final value for a 50% load step within the regulation limits of minimum and maximum load, $\Delta I/\Delta t < 0.2$ A/ μ s Maximum voltage deviation is 3.5%. Startup/shutdown overshoot less than 2%.

Overvoltage Protection

Built in with firing point set per ratings table. OVP firing reduces voltage to less than 50% of nominal voltage in 50 ms.

Turn-on time

Less than 1 second at 115 Vac, 25° C (inversely proportionate to input voltage and thermistor temperature.

Efficiency

70% minimum at full rated load, nominal input voltage. Efficiency increases as output voltage increases.

Input Protection

Internal ac fuse provided on all units.

Inrush Current

Inrush is limited by internal thermistor. The inrush at 230 Vac, averaged over the first ac half-cycle under cold start conditions will not exceed 32 A.

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 Specifications on next page.

EMI/EMC Compliance

All models include built-in EMI filtering to meet the following emissions requirements:

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.

Safety

Condor D.C. Power Supplies, Inc. declares under our sole responsibility that all GSC models are in conformity with the applicable requirements of EN60950 following the provisions of the Low Voltage Directive 73/23/EEC. All GSC models are approved to UL60950, CSA-C22.2 No. 60950, EN60950, IEC60950 with CB Certificate.

