

550 Watts QP-5550G Power Supply

- ATX output
- High Power Density 11.2W/inch³
- Built-in Remote Sense Function
- Universal AC Input / Full Range
- Built-in Active PFC Function
- High Efficiency Up to 85%
- ZVS Resonant Technology
- Fit 1U Applications
- Overvoltage, Overload, Short Circuit & Overtemperature Protection
- International Safety Standards



Specification

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	6A at 115 VAC 3A at 230 VAC
Inrush Current	35A at 115 VAC 70A at 230 VAC
Power Factor	>0.95 typical
Earth Leakage Current	<0.15 mA at 115VAC <0.25mA at 230 VAC
Input Protection	8.0A/250V on board fuse

Output

Output Voltage	See table
Output Voltage Tolerance	±5%
Minimum Load	See table
Start Up Delay	2 s max
Start Up Rise Time	2 ms
Hold Up Time	>16ms
Line Regulation	1% maximum
Load Regulation	5% maximum
Transient Response	5% max. deviation, 500 μs recovery time for a 50% load change
Ripple & Noise	1% pk-pk max
Overvoltage Protection	105-135%, recycle input to reset
Overload Protection	135% max rated output
Overtemperature Protection	110°C detected on heat sink
Temperature Coefficient	0.04% /°C

General

Efficiency	85% typical
Isolation	3000 VAC Input to Output 1500 VAC Input to Ground
Power Density	11.2 W/In ³
MTBF	>100 kHrs per MIL-HDBK-217F

Environmental

Operating Temperature	0°C to +40°C
Cooling	Internal fan cooled
Operating Humidity	5-95% RH, non-condensing
Storage Temperature	-40°C to +85°C
Vibration	2G on 3 axis

EMC & Safety

Emissions	EN55022, FCC, level B conducted
Harmonic Currents	EN61000-3-2 Class D
Voltage Flicker	EN61000-3-3
ESD Immunity	EN61000-4-2, level 2 Criteria B
Radiated Immunity	EN61000-4-3, 3 V/m Criteria B
EFT/Burst	EN61000-4-4, level 2 Criteria B
Surge	EN61000-4-5, level 3 Criteria B
Conducted Immunity	EN61000-4-6, level 2 Criteria B
Dips & Interruptions	EN61000-4-11, 70% U _T for 10 ms, 40% U _T for 100 ms, <5% U _T for 5000 ms Criteria A, B, B
Agency Standard	EN60950-1, UL60950-1, CSA60950-1 per cUL, CE Mark LVD

Dimension

L200 x W100 x H40 mm

Models and Ratings

Output	Min. Load	Max. Load	Overall Regulation	Ripple Noise
+3.3V	0A	20A	±5%	33 mV
+5V	0A	32A	±5%	50 mV
+12V	2A	40A	±5%	120 mV
-12V	0A	0.8A	±10%	120 mV
+5Vsb	0A	2.5A	±5%	50 mV

Note: +5V and +3.3V max power 160W

