TOP MICROSYSTEMS

Industrial Grade Gaming Power Supply

G Series 200W-600W 5V/12V/24V/5Vsb

FEATURES:

- Ultra Compact Design
- Highly Flexible Options
- Active Power Factor Correction
- Short Circuit Protection
- Over Voltage Protection
- Under Voltage Protection
- Over Current Protection
- Over Temperature Protection
- Two GPO Mains Outlets
- Low Leakage Current (<400uA)
- Fuses Accessible Externally

SPECIFICATIONS:

Input Voltage: 90-264Vac full range, 47~63Hz.

Input Current: <10A @ 115VAC, <5A @ 230VAC

Inrush Current: 20A Max@110/230VAC with full load at cold start.

PFC: Active power factor correction (95% PF)

Mains input : AC input receptacle to be IEC320 C14 type.

Efficiency: 75%@ 230V and full load.

Hold Up Time: 45mS min.

Over-Voltage Protection: Latching down will occur when output voltage exceed specified level.

Short Circuit Protection: Trips without damage and auto-recovers.

Over Temperature Protection: Protected in the event of excessive operating ambient temperature. Automatic recovery.

Operating Temperature: 0 to 40 ℃ ambient normal, 0 to 50℃ w/CFM

Storage Temperature: -40 to +75℃ (@ max change rate of 20℃/hr.)

Operating Humidity: <85% RH, non-condensing.

Storage Humidity: <95% RH, non-condensing.

Vibration: 0.01 g²/Hz at 5 Hz, sloping to 0.02 g²/Hz at 20 Hz, and maintaining 0.02 g²/Hz from 20 Hz to 500 Hz. The area under the PSD curve is 3.13 gRMS.

Mechanical Shock: 50g, trapezoidal input, velocity change ⩾ 4.3m/s.

Altitude: Operational up to 3,000M, non-operational to 15,000M.

Emissions: FCC Part 15 subpart B, AS/NZS CISPR 22: 2006, EN61000-3-3: 1995, EN61000-3-2: 2000, En55022: 1998 (plus A1: 2000 Class A, A2: 2003).

Immunity: EN55024:1998 (plus A1: 2001; A2: 2003),CISPR24, IEC61000-4-9: 2000.

Safety Regulation: Approved to UL60950-1: 2001, UL60950-1: 2004 UL22: 2001, CSA C22.2NO.60950-1, EN60950-1: 2004.

Leakage Current: <400uA @ 120VAC (allowing 100uA for GP outlets.)

Cooling: Dual 8cm fans provide 41CFM airflow.

Enclosure: 94.4mm(W)*200mm(H)*254mm(D).

Agencies: UL, TUV, CB, CE, RoHS

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Specification subject to change without prior notice.

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ORDERING INFORMATION:

Series	G1	G2	G3	G4
Model	G5600A1	G5400A2	G4400A3	G4200A4

OUTPUT RATINGS:

Output Voltage	+5V		+12.3V		+24V1		+24V2[2]		+5Vsb	
Series	G1	G2	G1	G2	G1	G2	G1	G2	G1	G2
Max output	600W	400W	600W	400W	600W	400W	600W	400W	600W	400W
Current Min.	0.0A	0.0A	0.5A	0.5A	0.5A	0.5A	0.0A	0.0A	0.0A	0.0A
Current Max.	13.0A	10.0A	14.0A	12.0A	10.5A	9.0A	4.5A	4.0A	2.0A	2.0A
Peak Power[1]	15.0A	12.0A	16.0A	14 .0A	11.5A	11.0A	7.1A[3]	6.0A[3]	3.0A	3.0A
Regulation	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	+/-5%	+/-5%
Ripple & Noise	50mV	50mV	120mV	120mV	200mV	200mV	200mV	200mV	50mV	50mV

Output Voltage	+5V		+12.3V		+24V1		+24V2[2]		+5Vsb	
Series	G3	G4	G3	G4	G3	G4	G3	G4	G3	G4
Max output	400W	200W	400W	200W	400W	200W	400W	200W	400W	200W
Current Min.	N/A	0.0A	0.5A	0.5A	0.5A	0.5A	0.0A	N/A	0.0A	0.0A
Current Max.	N/A	10.0A	10.0A	8.0A	6.5A	3.0A	4.5A	N/A	2.0A	2.0A
Peak Power[1]	N/A	12.0A	15.0A	12.0A	11.5A	6.0A	7.1A[3]	N/A	3.0A	3.0A
Regulation	N/A	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	+/-2.5%	N/A	+/-5%	+/-5%
Ripple & Noise	N/A	50mV	120mV	120mV	200mV	200mV	200mV	N/A	50mV	50mV

1. Peaks are defined as current demand with duration < 1 minute. Duty cycle of peaks is expected to be < 20%, but can not be guarantied.
2. Total current capability of +24V rail is shared between +24V1DC and +24V2DC
3. The peak current associated with the +24V2DC, is the start-up current of the fluorescent driver cards.