

PSG300P-89

AC PS2-ATX/P series

Features

- 300W 6 Outputs, AC Active PFC Input design
- Meet Intel ATX 2.01/ATX 2.03/ATX 12V/ EPS
- Operating temperature range from 0°C to 50°C
- Build in DC remote ON/OFF, PG/PF TTL signal
- Build in long life ball bearing fan
- Build in thermal fan speed for noisy reduction
- Complies with FCC Class B, CISPR Pub. 22, EN55022 Class B, and CE requirements
- UL/cUL, CCC, TUV and CB EN 60950 certified
- MTBF 100KHRs @ 25 °C per MIL-HDBK-217F
- 3 years manufacturer warranty



Electrical Specifications

AC Input

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|-------------------|--------------|-------------------|--------------------------------|
| ▪ Input Voltage | 90 – 264 VAC | ▪ Efficiency | >68% @ full load, nominal line |
| ▪ Input Current | 6.3A max. | ▪ Inrush Current | 80A max @ cold start |
| ▪ Input Frequency | 47 – 63 Hz | ▪ Leakage Current | 0.75mA max. @ 264Vac input |

DC Output - 300W Max

| Voltage | +5V | +12V | +3.3V* | -5V* | -12V* | +5VSB* |
|------------------|--------|--------|--------|-------|-------|--------|
| Max load – Rev A | 35.0A | 18.0A | 28.0A | 0.5A | 1.0A | 2.0A |
| Max load – Rev B | 35.0A | 18.0A | 28.0A | --- | 3.0A | 2.0A |
| Min load | 0-1.0A | 0-0.5A | 0-0.3A | 0.0A | 0.0A | 0.0A |
| Peak load | --- | 22.0A | --- | --- | --- | --- |
| Regulation | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% |
| Ripple & Noise | 50mV | 120mV | 50mV | 100mV | 120mV | 50mV |

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|---|---|
| ▪ The continuous total output power is 300W max | ▪ Hold-Up time: 16 msec (minimum) @ full load |
| ▪ The combined power of +5V and +3.3V is 200W max | ▪ Transient Overshoot: 10% max w/ 20% load change |
| ▪ The combined current of -5V and -12V is 1A max | ▪ Rise Time: 20 msec (maximum) @ full load |
| ▪ The -12V is 3A when -5V is not present | ▪ Power Up Time: 800 msec (maximum) @ full load |
| ▪ The peak load on +12V lasting 15 seconds max | ▪ Over Power protection: 150% max of rated output |
| ▪ The outputs marked with " * " can be optional | ▪ Over Voltage protection on +5V, +12V, and +3.3V |
| ▪ Remote ON/OFF: TTL High/PS OFF, TTL Low/PS ON | ▪ Short Circuit protection on all outputs |
| ▪ PG delay: 100-500 msec; PF delay: > 1 msec | |

Mechanical Dimension

- W x L x H = 150 x 140 x 86 mm / 5.90 x 5.51 x 3.39 inch