

# PSG120F-89

# AC 1U Slim/F series

## Features

- 120W 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

- |                   |              |                   |                                |
|-------------------|--------------|-------------------|--------------------------------|
| ▪ Input Voltage   | 90 – 264 VAC | ▪ Efficiency      | >68% @ full load, nominal line |
| ▪ Input Current   | 4A max.      | ▪ Inrush Current  | 80A max @ cold start           |
| ▪ Input Frequency | 47 – 63 Hz   | ▪ Leakage Current | 0.75mA max. @ 264Vac input     |

### DC Output - 120W Max

Voltage	+5V	+12V	+3.3V*	-5V*	-12V*	+5VSB*
Max load – Rev A	15.0A	6.0A	15.0A	0.5A	1.0A	2.0A
Max load – Rev B	15.0A	6.0A	15.0A	---	3.0A	2.0A
Min load	0-0.5A	0-0.5A	0-0.3A	0.0A	0.0A	0.0A
Peak load	---	9.0A	---	---	---	---
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 120W max  | ▪ Hold-Up time: 16 msec (minimum) @ full load     |
| ▪ The combined power of +5V and +3.3V is 75W 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 = 80 x 190 x 40 mm / 3.15 x 7.48 x 1.58 inch