



300W 1U AC/DC Power Supply with active PFC function and ATX output



Features

- Active PFC (full range)
- 300W AC/DC with ATX output
- Output Voltage: 5V / 12V / -5V / -12V / 3.3V / 5VSB
- Safety Standard: UL, CSA, TUV, CCC

Input

- 100V ~ 240V, $\pm 10\%$

Efficiency

- Typical 65% at 115VAC, at full load

Hold Up Time

- 16ms minimum, at max load & normal input voltage

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- Dual 40mm DC fans

Output Protection

- Short circuit, Overload & Over voltage power protection

MTBF

- Over 100,000 hours at 25°C ambient temperature

Environment

- Operating Temperature: 0 to 40 °C.
- Humidity: 10% ~ 90% non condensing

EMI/RFI

- FCC part 15, CISPR22 (EN 5502)

Safety

- UL1950, TUV EN-60950, EN 61000-4-2 (ESD), CCC

Dimension (WxDxH)

- 100 x 205 x 40.5 mm

Output Connector

- 1x 20+4-pin ATX, 1x 8-pin 12V CPU, 4x SATA, 1x FDD and 2x 4-pin aux PWR

Output Table

| Output Voltage | Max. Load | Min. Load | Line reg. | Load Reg. | Noise Reg. |
|----------------|-----------|-----------|-----------|------------|------------|
| 3.3V | 14A | 1A | $\pm 1\%$ | $\pm 5\%$ | 50mV |
| 5V | 25A | 3A | $\pm 1\%$ | $\pm 5\%$ | 50mV |
| -5V | 0.5A | 0.05A | $\pm 1\%$ | $\pm 10\%$ | 120mV |
| 12V | 16A | 2A | $\pm 1\%$ | $\pm 8\%$ | 100mV |
| -12V | 1A | 0.05A | $\pm 1\%$ | $\pm 10\%$ | 150mV |
| +5Vsb | 1.5A | 0.1A | $\pm 1\%$ | $\pm 5\%$ | 50mV |

Note:

1. +5V and +3.3V maximum total output power 138W
2. +5V, +3.3V and +12V maximum total output power 378W.
2. Add 220uF tantalum and 0.1uF ceramic capacitors in parallel at point of ripple and noise measurement. Noise bandwidth is from DC to 20MHz.

Ordering Information

P1G-6300P

300W 1U Power supply with active PFC and ATX output