



ATX-0250GA

ATX12V



Application Reference

- Performance Desktop PC



- Media Center PC



Electrical Specifications

- Input Voltage 90 ~ 264 VAC Auto-Sensing
- Frequency 47 ~ 63 Hz
- Input current 10 Arms @ 100 VAC
5 Arms @ 240 VAC
- Hold-up Time 10ms in regulation ranges

Environmental Specifications

- Protection OCP/OPP/OVP
OTP(optional)
- Operating/Storage Temp. 0~40°C/-40~70°C
- Operating/Storage Humidity 20~85%/5~90%
- Operating/Storage Altitude 3,000/15,000 FT
- MTBF 100,000 HRS @ 25°C
- Safety Approvals UL, CB, NEMKO
- EMC Regulations FCC, CE

Output Specifications

| <u>Voltage</u> | <u>Cross Regulation</u> | <u>Minimum Load</u> | <u>Maximum Load</u> | <u>Peak</u> |
|----------------|-------------------------|---------------------|---------------------|-------------|
| +3.3V | +/-5% | 0.1A | 24.0A | -- |
| +5.0V | +/- 5% | 0.2A | 20.0A | -- |
| +12.0V1 | +/- 5% | 0.1A | 20.0A | 21.0A |
| +12.0V2 | +/- 5% | 0.5A | 20.0A | 21.0A |
| -12.0V | +/- 10% | 0.0A | 0.3A | -- |
| +5 Vsb | +/- 5% | 0.0A | 2.5A | 3.5A |

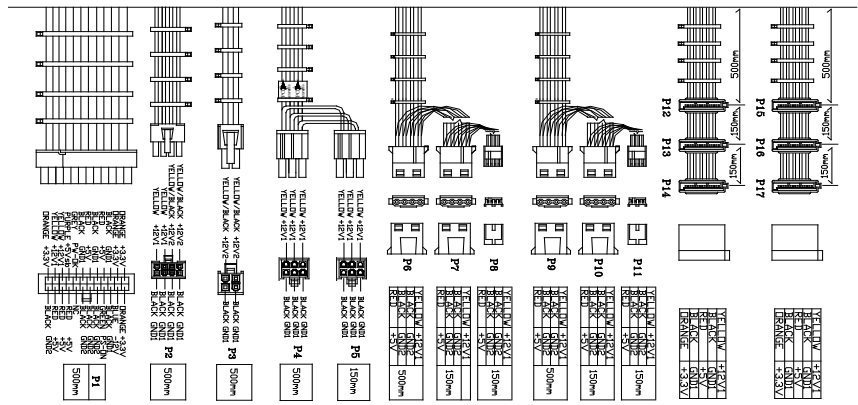
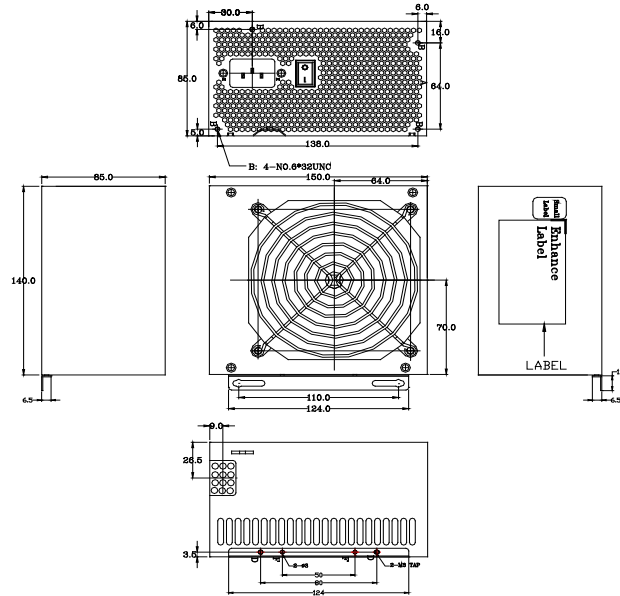

(*) The combines load output on +3.3V and +5V rail shall not exceed 130 Watts
 (*) The maximum combined output of 12V1 and 12V2 is 360W
 (*) peak current at individual output only last up to 17 seconds



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Mechanical Drawing

Main power
24 (20+4) pin
- P1



Aux12V
(8 pin) - P2



Aux12V
(4 pin) - P9



PCIE-
P4 ~ P5



IDE Drive
- P6,P7, P9 &
P10



FDD Drive
- P8 & P11



SATA
- P12~P17

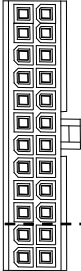


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Wire Harness

Description

P1 - Main Power



P2 - 8 Pin CPU-VR Power Connector



P3 - Power Connector for high wattage PCI-Exp VGA



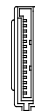
P4, P5, P7, P8 - Peripheral



P6 - Floppy



P9 - 12 - SATA



Connector Housing

Molex 39-01-2240 or Equivalent

| | | | | | |
|----|--------|--------|----|--------|----------|
| 1 | Orange | +3.3V | 13 | Orange | +3.3V |
| 2 | Orange | +3.3V | 14 | Blue | -12VDC |
| 3 | Black | GND | 15 | Black | GND |
| 4 | Red | +5V | 16 | Green | PS_ON |
| 5 | Black | GND | 17 | Black | GND |
| 6 | Red | +5V | 18 | Black | GND |
| 7 | Black | GND | 19 | Black | GND |
| 8 | Gray | PWR OK | 20 | N/E | Reserved |
| 9 | Purple | 5 VSB | 21 | Red | +5V |
| 10 | Yellow | +12V1 | 22 | Red | +5V |
| 11 | Yellow | +12V1 | 23 | Red | +5V |
| 12 | Orange | +3.3V | 24 | Black | GND |

Molex 39-01-2080 or Equivalent

| | | | | | |
|---|-------|-----|---|--------|-------|
| 1 | Black | GND | 5 | Yellow | +12V1 |
| 2 | Black | GND | 6 | Yellow | +12V1 |
| 3 | Black | GND | 7 | Yellow | Black |
| 4 | Black | GND | 8 | Yellow | Black |

Molex 45559-0002 or Equivalent

| | | | | | |
|---|--------|-------|---|-------|-----|
| 1 | Yellow | +12V1 | 4 | Black | GND |
| 2 | Yellow | +12V1 | 5 | Black | GND |
| 3 | Yellow | +12V1 | 6 | Black | GND |

Molex 8981-04P or Equivalent

| | | |
|---|--------|-------|
| 1 | Yellow | +12V1 |
| 2 | Black | GND |
| 3 | Black | GND |
| 4 | Red | +5V |

AMP 171822-4 or Equivalent

| | | |
|---|--------|-------|
| 1 | Red | +5V |
| 2 | Black | GND |
| 3 | Black | GND |
| 4 | Yellow | +12V1 |

Molex 88751 or Equivalent

SATA

| | | |
|---|--------|-------|
| 1 | Yellow | +12V1 |
| 2 | Black | GND |
| 3 | Red | +5V |
| 4 | Black | GND |
| 5 | Orange | +3.3V |

Dimension (WxLxH)

- 150 x 140 x 86 (mm)
- 5.9 x 5.5 x 3.38 (inch)

Cooling Fan

- 12V DC, 120mm

Notes

• Pictures, drawing and specification subject to change without notice. All new processors support will be updated once official announced by vendors

•Last Update: 9/30/2009

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