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- Power The World with Highest Efficiency



ATX-0250GA

- 500W Output; Active PFC
- Protections: OVP, OPP, SCP, OTP
- Reliability: MTBF 100,000 hrs @ 25°C, Full Load
- High Efficiency (80+ Bronze): 83.39% @ 115Vac, Full Load
- Safety Approval: cUL, Nemko, CB, CCC, BSMI
- Warranty: 1-year manufacturer













| Input Specification | | | | | |
|-------------------------|---|----|---------|------|--------|
| Parameter | Conditions/Description | | Normal | Max. | Units |
| Input Voltage Range | Universal Input | 90 | 100-240 | 264 | V(ac) |
| Input Frequency Range | | 47 | 60/50 | 63 | Hz |
| Input Current | Measured at 90 Vac / 264 Vac input, full load output | | 10/5 | | A |
| Inrush Current | Measured at 50A@115Vrms /100A@ 230Vac (25°C ambient temperature, cold start). | ļ | | | A |
| Efficiency (80+ Bronze) | Measured at 115 Vac @ Full Load | | 83.39 | | % |
| | i. | | 83.39 | | A % |

| Output Specification | | l Vo | Itage Regu | lation | Ripple Noise | | Output Cur | rent (Am | ps) | |
|-------------------------|--|---------------------|------------|--------------|--------------|------|------------|----------|------|--------|
| Parameter | Conditions/Description | Range | | Max. (V) | (mVp-p) | Min. | Normal | Max. | Peak | Units |
| +3.3VDC | | +/-5% | 3.14 | 3.47 | 50 | 0.1 | - | 24 | F | \top |
| +5VDC | | +/-5% | 4.75 | 5.25 | 50 | 0.2 | - | 20 | - | |
| +12V1DC | | +/-5% | 11.4 | 12.6 | 120 | 0.1 | - | 20 | 21 | |
| +12V2DC | | +/-5% | 11.4 | 12.6 | 120 | 0.5 | - | 20 | 21 | |
| -12VDC | | +/-10% | -10.8 | -13.2 | 120 | 0 | - | 0.3 | - | |
| +5VSB | | +/-5% | 4.75 | 5.25 | 50 | 0 | - | 2.5 | 3.5 | |
| oltage Hold-Up Time | Measured at 115Vac/60Hz or 230Va | c/50Hz/100% load af | ter power | source remov | ved. | 17 | | | | mSec |
| Output Rise Time | | | | | | | | 10 | | mSec |
| otal Combined Output of | +3.3V and +5V can not exceed 130W. | | | | | | | - | | |
| otal Combined Output of | +12V1 & +12V2 can not exceed 360W . | | | | | | | | | |

| Enviromental Specification | | | | | |
|----------------------------|---|-----------|------------|--------------|-----------|
| Parameter | Conditions/Description | | | | |
| MTBF | Calculated via MIL-HDBK-217F @ 25°C ambient temperature, Full load, 110 Vac | 100,000 | | | Hours |
| Operating Temperature | Full load | 0 | | 40 | °C |
| Storage Temperature | | -40 | | 70 | °C |
| Relative Humidity | Non-Condensing | 20 | | 85 | % |
| Dimension | Length x Width x Height | 150 x 140 | 0 x 86/5.9 | x 5.5 x 3.38 | mm / inch |
| Cooling Fan | 12VDC | 120 | | | mm |
| ROHS | European Directive 2002/95/EC | • | | | |

| Reliability Protection | | |
|------------------------|--|---|
| Parameter | Conditions/Description | Recovery Mode |
| Overload | Transit to current limit mode if output over 110% - 160% | Shut Down Output, Auto recover once reset AC power-on by user |
| Over Voltage | | Shut Down Output, Auto recover once reset AC power-on by user |
| Short Circuit | | Shut Down Output, Auto Recover once faults conditions removed |
| Over Temperature | | Shut Down Output, Auto Recover once faults conditions removed |

| Safety & EMC Compliance | | | |
|----------------------------|--------------------------------|--------------|------------|
| Category | Standard | | Comment |
| SAFETY | cUL, NEMKO, CB, CCC, BSMI | | Approved |
| EMI Conduction & Radiation | | | Compliance |
| Harmonic Current Emissions | | EN61000-3-2 | Compliance |
| EMS Immunity | Voltage Fluctuation | EN61000-3-3 | Compliance |
| | Electrostatic Discharge (ESD) | EN61000-4-2 | Compliance |
| | Radiated Susceptibilty | EN61000-4-3 | Compliance |
| | Fast Transients / Burst - EFT | EN61000-4-4 | Compliance |
| | Input Line Surge Immunity | EN61000-4-5 | Compliance |
| | Conducted Susceptibilty | EN61000-4-6 | Compliance |
| | Power Frequency Magnetic Field | EN61000-4-8 | Compliance |
| | Voltage Dips | EN61000-4-11 | Compliance |

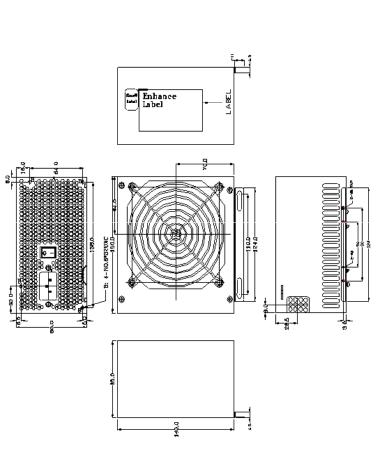




Media



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| P1 | Molex 39-01-2240 or equivalent |
|------------------------|--------------------------------|
| P2 CPU-VR Power | Molex 39-01-2080 or equivalent |
| P3 CPU-VR Power | Molex 39-01-2040 or equivalent |
| P4,P5 PCI-Exp VGA | Molex 45559-0002 or equivalent |
| P6, P7, P9, P10 | Molex 8981-04P or equivalent |
| P8, P11 | AMP 171822-4 or equivalent |
| P12, P13, P14 – SATA-1 | Molex 88751 or equivalent |
| P15, P16, P17 – SATA-2 | Molex 88751 or equivalent |

| P15 P16 P17 |
|--|
| P12 P13 P14 |
| P11 P10 P10 P10 P10 P10 P10 P10 P10 P10 |
| P0 VELLOV -12V1 150m 150 |
| YELLOW 42V1 SEACK 966 P6 150mm YELLOW 42V1 SEACK 966 P6 150mm YELLOW 42V1 SEACK 966 P4 500mm YELLOW 42V1 SEACK 966 P4 500mm |
| VILLEVOLAN SECTION LANGUAGE PS 500mm |
| VILLOV/RAOK -18V8 - RAOK GABI P2 SOOM |
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Notes

- Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheet are no longer controlled by Enhance Electronics, refer to http://www.enhanceusa.com for the most current product specifications.
- 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured.
- Mechanical drawings (model No. ATX-0250GA) is for reference only. The cable wire configuration may vary from other
 custom designed models as picture showing. Please contact your sales representative for detail.
- 4. Specifications are for reference only. All specifications are measured at an ambient temperature of 25°C, humidity 65%, 230Vac nominal input voltage and at rated output load unless otherwise specified.