

- Power The World with Highest Efficiency

# ATX-0250GA

## Features

- **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	Min.	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).				A	
Efficiency (80+ Bronze)	Measured at 115 Vac @ Full Load		83.39		%	

Output Specification											
Parameter	Conditions/Description	Voltage Regulation			Ripple Noise	Output Current (Amps)				Units	
		Range	Min. (V)	Max. (V)	(mVp-p)	Min.	Normal	Max.	Peak		
+3.3VDC		+/-5%	3.14	3.47	50	0.1	-	24	-		
+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		
Voltage Hold-Up Time	Measured at 115Vac/60Hz or 230Vac/50Hz/100% load after power source removed.					17					mSec
Output Rise Time								10			mSec
Total Combined Output of +3.3V and +5V can not exceed <b>130W</b> .											
Total Combined Output of +12V1 & +12V2 can not exceed <b>360W</b> .											

Environmental Specification						
Parameter	Conditions/Description	Min.	Normal	Max.	Units	
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 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 Susceptibility	EN61000-4-3 Compliance
	Fast Transients / Burst - EFT	EN61000-4-4 Compliance
	Input Line Surge Immunity	EN61000-4-5 Compliance
	Conducted Susceptibility	EN61000-4-6 Compliance
	Power Frequency Magnetic Field	EN61000-4-8 Compliance
Voltage Dips	EN61000-4-11 Compliance	

