

- Power The World with Highest Efficiency



ATX-5820

Features

- **2000W Output, Active PFC**
- **Protections:** OVP, OPP, SCP, OTP
- **Reliability:** MTBF 100,000 hrs @ 25°C, Full Load
- **High Efficiency:** 89% @ 115Vac, Full Load
- **Safety Approval:** CE, FCC, Nemko, CB, cTUVus
- **Warranty:** 1-year manufacturer



Input Specification					
Parameter	Conditions/Description	Min.	Normal	Max.	Units
Input Voltage Range	Universal Input	180	200-240	264	V(ac)
Input Frequency Range		47	60/50	63	Hz
Input Current	Measured at 90 Vac / 264 Vac input, full load output		12		A
Inrush Current	Measured at 45A@115Vrms /50A@ 230Vac (25°C ambient temperature, cold start).				A
Efficiency (80+ Bronze)	Measured at 115 Vac @ Full Load		90		%

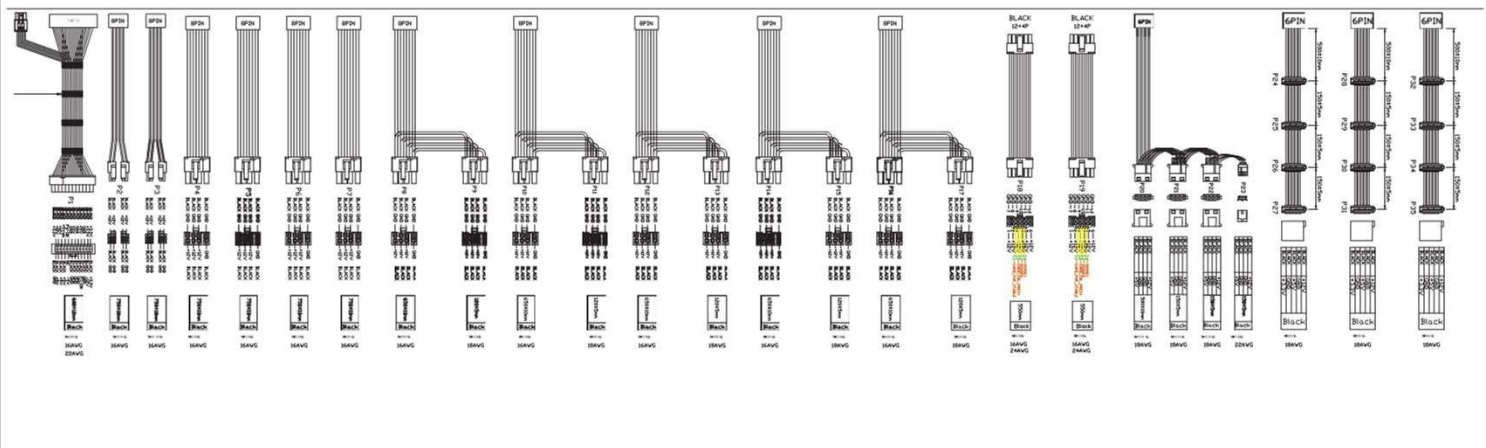
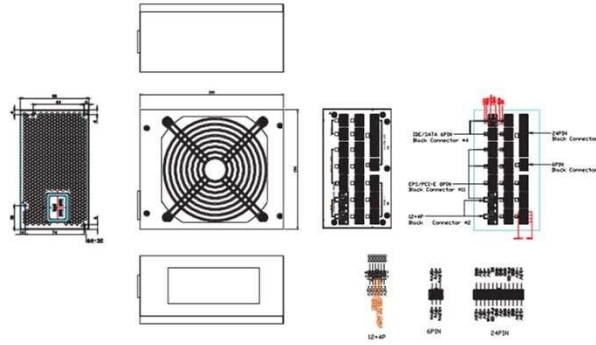
Output Specification										
Parameter	Conditions/Description	Voltage Regulation			Ripple Noise (mV/p-p)	Output Current (Amps)				Units
		Range	Min. (V)	Max. (V)		Min.	Normal	Max.	Peak	
+3.3V		+/-5%	3.14	3.47	30	0	-	25	-	Amps
+5V		+/-5%	4.75	5.25	30	0	-	22	-	Amps
+12V		+/-5%	11.4	12.6	60	0	-	166	-	Amps
-12V		+/-10%	-10.8	-13.2	60	0	-	0.3	-	Amps
+5VSB		+/-5%	4.75	5.25	30	0	-	3	-	Amps
Output Rise Time						0.2		20		mSec
Voltage Hold-Up Time	Measured at 115Vac/47Hz or 230Vac/47Hz/100% load after power source removed.					11				mSec
Total Combined Output Load on +3.3V and +5V shall not exceed 120W .										
The average maximum continuous DC output power shall not exceed 2000W .										

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		50	°C
Storage Temperature		-40		70	°C
Relative Humidity	Non-Condensing	5		95	%
Dimension	Length x Width x Height	180 * 150 * 86 / 7 * 5.9 * 3.3			mm/ inch
Cooling Fan	12VDC	135 * 135 * 25			mm
ROHS	European Directive 2002/95/EC				

Reliability Protection		
Parameter	Conditions/Description	Recovery Mode
Overload	Transit to current limit mode if output over 110% - 150%	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	CE, FCC, Nemko, CB, cTUVus		Approved
EMI Conduction & Radiation	EN55022 Class-B		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

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P1	Molex 39-01-2240 or equivalent
P2, P3	Molex 39-01-2040 or equivalent
P4-P17	Molex 45587-0004 or equivalent
P18-P19	Amphenol 10161719-124GLF or Equivalent
P20-P22	Molex 8981-04P or equivalent
P23	AMP 171822-4 or equivalent
P24-P35	Molex 88751 or equivalent SATA

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.
- Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured.
- Mechanical drawings (model No. ATX-5820) 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.
- 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.