

- Power The World with Highest Efficiency

ATX-3165

PS2



Features

- **650W Output, Active PFC**
- **Protections:** OVP, OPP, SCP, OTP
- **Reliability:** MTBF 100,000 hrs @ 25°C, Full Load
- **High Efficiency:** 87% @ 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	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		8/4		A
Inrush Current	Measured at 45A@115Vrms /90A@ 230Vac (25°C ambient temperature, cold start).				A
Efficiency (80+ Bronze)	Measured at 115 Vac @ Full Load		87		%

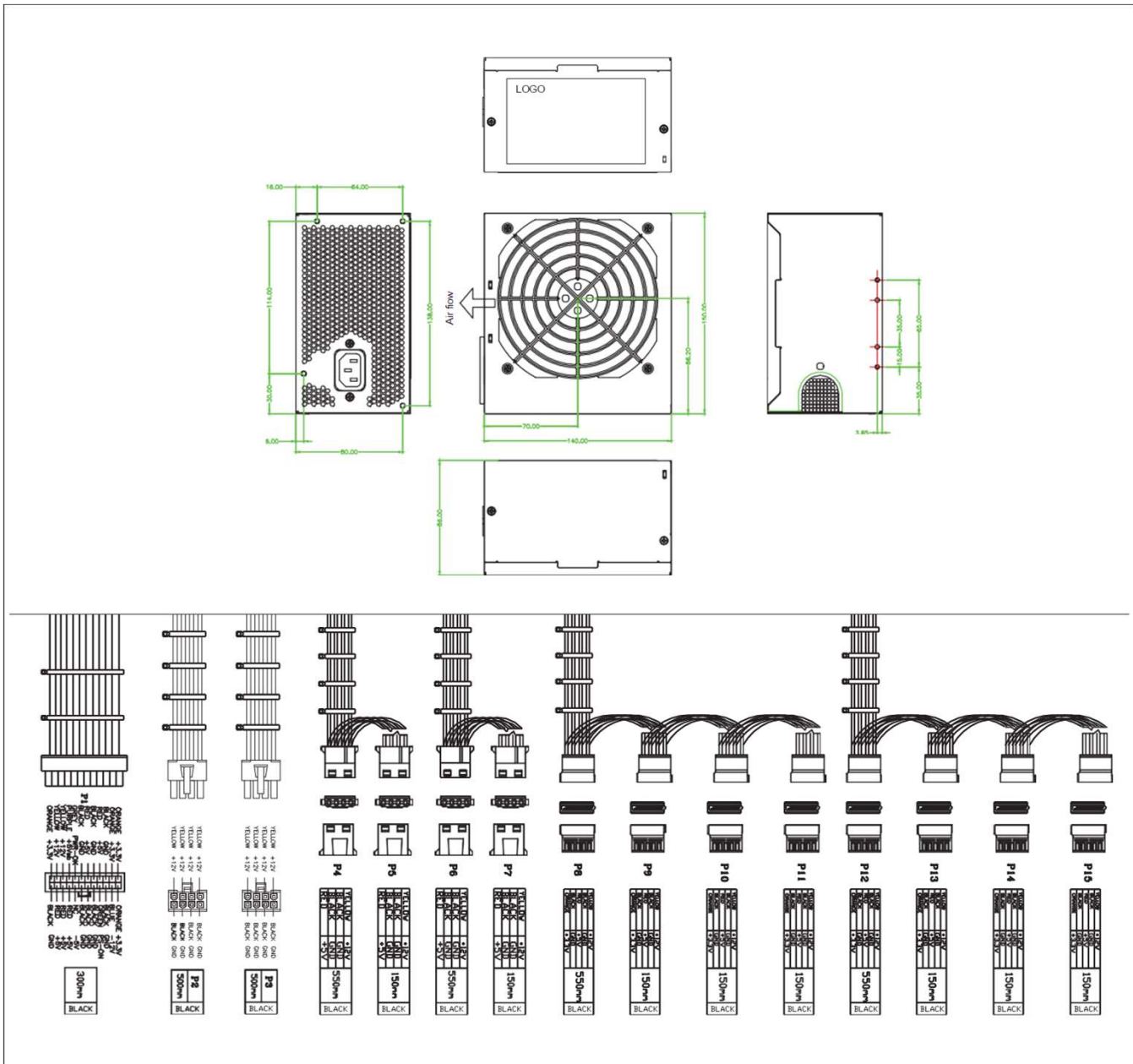
Output Specification										
Parameter	Conditions/Description	Voltage Regulation			Ripple Noise	Output Current (Amps)				Units
		Range	Min. (V)	Max. (V)	(mVp-p)	Min.	Normal	Max.	Peak	
+3.3V		+/-5%	3.14	3.47	50	0.1	-	20	-	Amps
+5V		+/-5%	4.75	5.25	50	0.2	-	20	-	Amps
+12V		+/-5%	11.4	12.6	120	0	-	54	-	Amps
-12V		+/-10%	-10.8	-13.2	120	0	-	0.3	-	Amps
+5VSB		+/-5%	4.75	5.25	50	0	-	3	3.5	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.					16				mSec
Total Combined Output Load on +3.3V and +5V shall not exceed 100W .										
The average maximum continuous DC output power shall not exceed 650W .										

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		85	%
Dimension	Length x Width x Height	140 * 150 * 86 / 5.5 * 5.9 * 3.3			mm / inch
Cooling Fan	12VDC	120 * 120 * 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% - 180%	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

- Power The World with Highest Efficiency



P1	Molex 39-01-2240 or equivalent
P2, P3	Molex 39-01-2040 or equivalent
P4-P7	Molex 8981-04P or equivalent
P8-P15	Molex 88751 or equivalent SATA

Notes

1. 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.
3. Mechanical drawings (model No. ATX-3165) 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.