

- Power The World with Highest Efficiency

EPS-1290GA

Features

- **900W Output, Active PFC**
- **Protections:** OVP, OPP, SCP, OTP
- **Reliability:** MTBF 100,000 hrs @ 25°C, Full Load
- **High Efficiency (80+ Silver):** 86.74% @ 115Vac, Full Load
- **Safety Approval:** cUL, Nemko, CB, 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		15/8		A	
Inrush Current	Measured at 50A@115Vrms / 100A@ 230Vac (25°C ambient temperature, cold start).				A	
Efficiency (80+ Silver)	Measured at 115 Vac @ Full Load		86.74		%	

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		+/-3%	3.20	3.40	50	0.5	-	20	-		
+5VDC		+/-3%	4.85	5.15	50	0.8	-	25	-		
+12V1DC		+/-3%	11.64	12.36	120	0.2	-	25	26		
+12V2DC		+/-3%	11.64	12.36	120	0.2	-	25	26		
+12V3DC		+/-3%	11.64	12.36	120	0.2	-	35	35		
+12V4DC		+/-3%	11.64	12.36	120	0.2	-	28	28		
-12VDC		+/-10%	-13.20	-10.8	120	0	-	0.5	0.5		
+5VSB		+/-3%	4.85	5.15	50	0.1	-	2.0	2.5		
Voltage Hold-Up Time	Measured at 115Vac/60Hz or 230Vac/50Hz/75% load after power source removed.					18					mSec
Output Rise Time								70			mSec

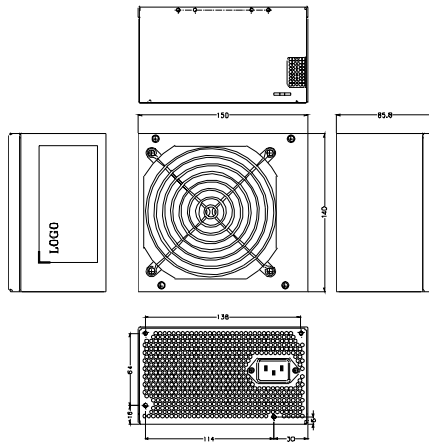
Total Combined Output of +3.3V and +5V can not exceed **180W**.
 Maximum combined current for the 12V outputs shall be **80A. (960W)**

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		-20		60	°C	
Relative Humidity	Non-Condensing	5		95	%	
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					

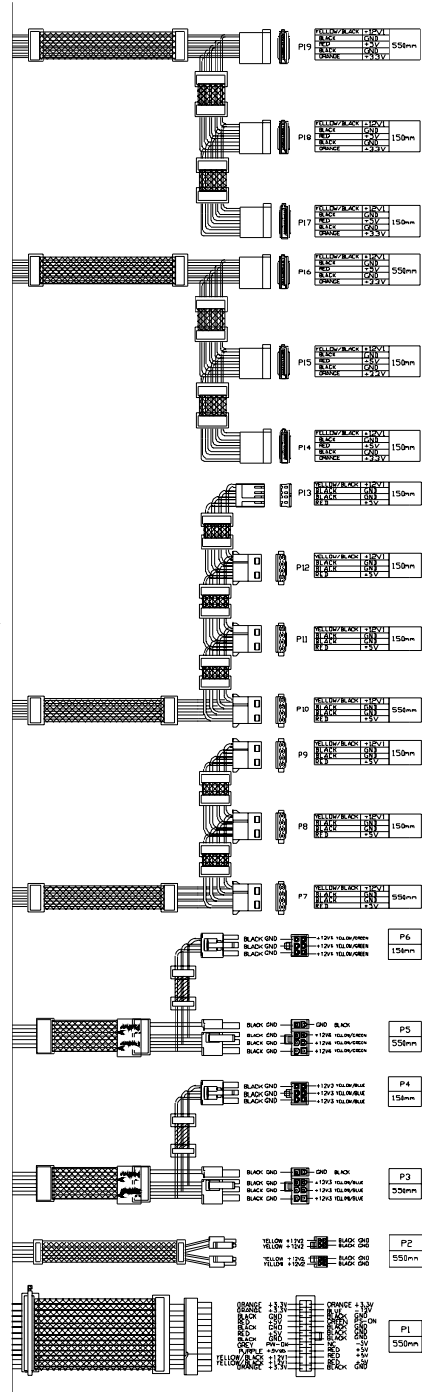
Reliability Protection		
Parameter	Conditions/Description	Recovery Mode
Overload	Transit to current limit mode if output over 110% - 160%	Shut Down Output, Auto recover once reset AC power-on by user
Over Voltage		Shut Down Output, Auto recover once reset AC power-on by user
Short Circuit		Shut Down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

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P1 24-pin	Molex 39-01-2240 or equivalent
P2 8-pin	Molex 39-01-2080 or equivalent
P3, P5 PCI 8-pin	Molex AP102XN8T1-204X-RS1 or equivalent
P4, P6 PCI 6-pin	Molex 45559-0002 or equivalent
P7-P12	Molex 8981-04P or equivalent
P14-P19 SATA	Molex 88751 or equivalent



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. EPS-1290GA) 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.