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- Power The World with Highest Efficiency

# EPS-1210GA

## Features

- 1000W Output, Active PFC
- Protections: OVP, OPP, SCP, OTP
- Reliability: MTBF 100,000 hrs @ 25°C, Full Load
- High Efficiency: up to 85% @ 110Vac, Full Load
- Safety Approval: cUL, Nemko, CB, BSMI
- Warranty: 1-year manufacturer

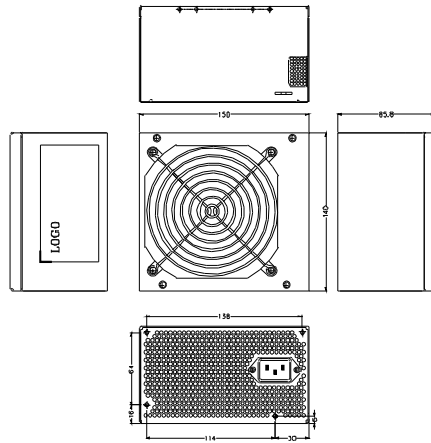


EPS12V

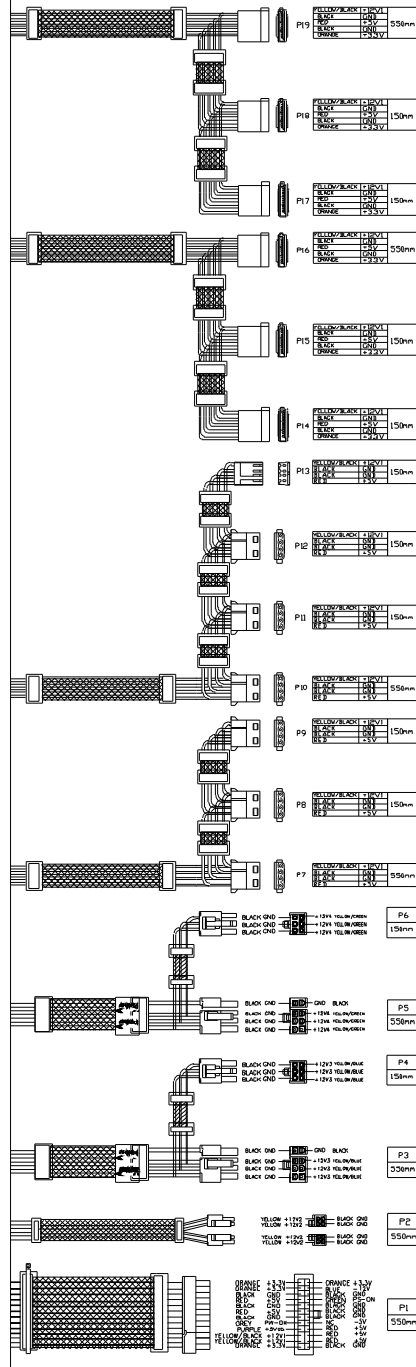


Input Specification											
Parameter	Conditions/Description	Min.	Normal	Max.	Units						
Input Voltage Range	Universal Input	90	100-240	264	V(ac)						
Input Frequency Range		47	60/50	63	Hz						
Input Current	Measured at 90 Vac / 264 Vac input, full load output		15/8		A						
Inrush Current	Measured at 50A@115Vrms / 100A@ 230Vac (25°C ambient temperature, cold start).				A						
Efficiency	Measured at 115 Vac or 230Vac , Full Load		85		%						
Output Specification											
Parameter	Conditions/Description	Voltage Regulation			Ripple Noise (mVp-p)	Output Current (Amps)					
		Range	Min. (V)	Max. (V)		Min.	Normal	Max.	Peak	Units	
+3.3VDC		+/-3%	3.20	3.40	50	0.5	-	25	-		
+5VDC		+/-3%	4.85	5.15	50	0.8	-	30	-		
+12V1DC		+/-3%	11.64	12.36	120	0.2	-	28	-		
+12V2DC		+/-3%	11.64	12.36	120	0.2	-	25	-		
+12V3DC		+/-3%	11.64	12.36	120	0.2	-	35	-		
+12V4DC		+/-3%	11.64	12.36	120	0.2	-	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 82A. (984W)											
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-1210GA) 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.