

13100 Alondra Blvd., #106. Cerritos, California 90703 Tel: 562-677-1268, Fax: 562-677-1269

web site: http://www.enhanceusa.com

- 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













Workstation



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		Α
Inrush Current	Measured at 50A@115Vrms /100A@ 230Vac (25°C ambient temperature, cold start).				Α
Efficiency (80+ Silver)	Measured at 115 Vac @ Full Load		86.74		%

Output Specification										
		Voltage Regulation		Ripple Noise	Output Current (Amps)			s)		
Parameter	Conditions/Description	Range	Min. (V)	Max. (V)	(mVp-p)	Min.	Normal	Max.	Peak	Units
+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.							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)

Enviromental 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	150 x 140 x 86/5.9 x 5.5 x 3.38			mm / inch	
Cooling Fan	12VDC	120	120 mm		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 Susceptibilty	EN61000-4-3	Compliance
	Fast Transients / Burst - EFT	EN61000-4-4	Compliance
	Input Line Surge Immunity	EN61000-4-5	Compliance



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- Power The World with Highest Efficiency 1 P1 24-pin Molex 39-01-2240 or equivalent P2 8-pin Molex 39-01-2080 or equivalent P3, P5 Molex AP102XN8T1-204X-R\$1 or PCI 8-pin equivalent P4, P6 Molex 45559-0002 or equivalent PCI 6-pin P7-P12 Molex 8981-04P or equivalent P14 -P19 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.
- 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured.
- 3. 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.
- 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.