13100 Alondra Blvd., #106. Cerritos, California 90703
Tel: 562-677-1268, Fax: 562-677-1269
web site: http://www.enhanceusa.com

EPS12V

- Power The World with Highest Efficiency

EPS-1280GA

Features

- 800W Output, Active PFC
- Protections: OVP, OPP, SCP, OTP
- Reliability: MTBF 100,000 hrs @ 25°C, Full Load
- High Efficiency (80+ Silver): 86.09% @ 115Vac, Full Load
- Safety Approval: cUL, Nemko, CB, BSMI
- Warranty: 1-year manufacturer

Workstation PC

Gaming PC

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		12/6.3		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		86.09		%

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	-	20	22	
+12V3DC		+/-3%	11.64	12.36	120	0.2		28	28	
+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 150W.										
Maximum combined current for the 12V outputs shall be 65A. (780W)										

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 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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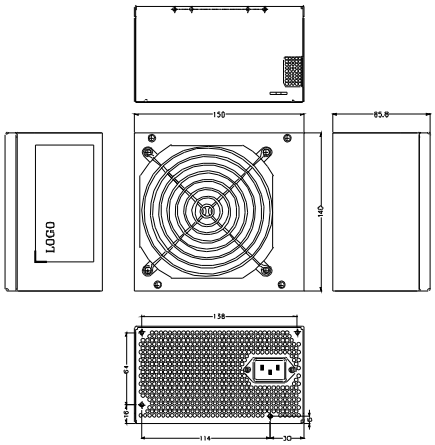

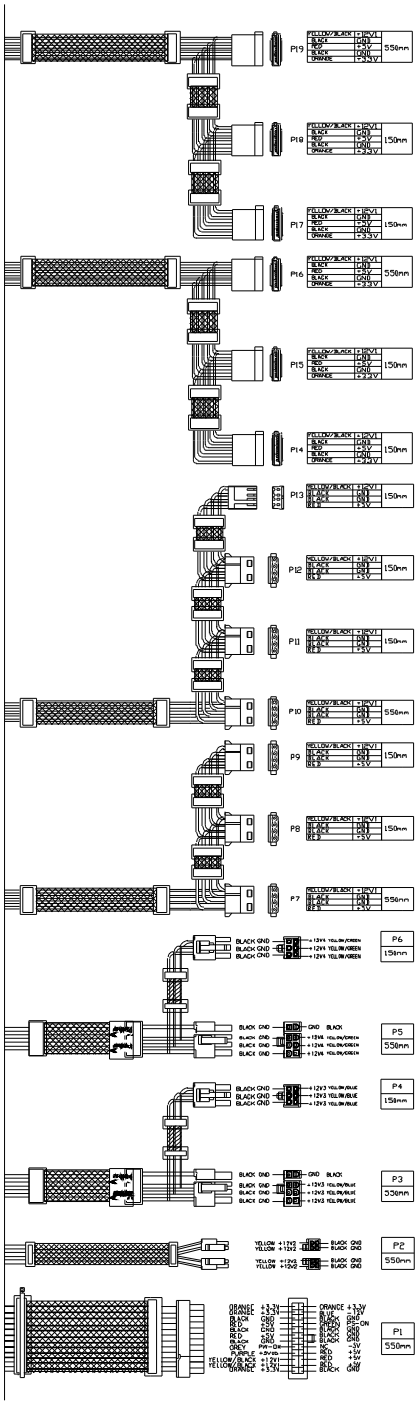

P1 24-pin	Molex 39-01-2240 or equivalent
P2 8-pin	Molex 39-01-2080 or equivalent
P3, P5 PCI 8-pin	Molex AP102XN8T1-204X-RS1 or equivalent
P4, P6 PCI 6-pin	Molex 45559-0002 or equivalent
P7-P12	Molex 8981-04P or equivalent
P14 –P19 SATA	Molex 88751 or equivalent

Notes

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. EPS-1280GA) 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.