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- 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



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 (80+ Silver)	Measured at 115 Vac @ Full Load		86.74		%						
Output Specification											
Parameter	Conditions/Description	Voltage Regulation			Ripple Noise	Output Current (Amps)					
		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.	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									

