250W RAINROOF SWITCHING POWER SUPPLY SINGLE OUTPUT

ERP-250 series



(Dimension) L:218 mm W:95mm H:50mm Weight: 0.60Kg



■Applications

.Mechanical, electrical equipment .cooling by free air convection .LED slim lighting equipment .IT communication equipment ·100% full load burn-in test .Aging equipment

Features

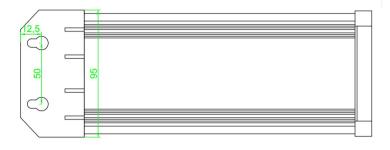
.Industrial automation machinery ·Over-load,Over-temp. protection ·LED power indicator ·No-load consumption \leq 1.5W ·Withstand 300VAC surge input for 5 seconds ·Working temperature up to 60 $^\circ\!\mathrm{C}$ ·5G vibration tested ·High efficiency, long life, high reliability

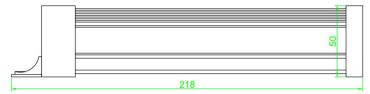
·2 years warranty

DC vielte se		ERP-250-24				
DC voltage	12V	24V				
Rated Current	20A	10.4A				
Current Range	0-20A	0-10.4A				
Rated Power	250W	250W				
Ripple and Noise(Max)Note.2	150mVp-p	240mVp-p				
Voltage	10.8-13.2V	22-27.6V				
Voltage tolerance	±1%	±1%				
Linear Regulation	±0.5%	±0.5%				
Load Regulation	±0.5%	±0.5%				
Setup and rise	1000ms,30ms/230VAC 1000ms,30ms/110V					
Hold up time	50ms/230VAC 10ms/115AC					
Voltage range	AC 220±15%					
Frequency range 50HZ						
Efficiency (Typ)	80%	82%				
AC current	1.8A/220V Cold start: 65A/230VAC					
Surge (Inrush)						
Leakage Current	<2mA/240VAC					
Quarland	>105% rated output power					
Overioad	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
Overvoltage	Protection type :Shut down O/P voltage, re-power on to recover					
Working temp.	& -40∼+80°C					
Working humidity						
Storage temp &						
Temp. coefficient						
Vibration proof	$10{\sim}500$ HZ,5G 10min/1 cycle, period for 60min. each along X, Y, Z axes					
Safety regulation	GB195110.1-2004/IEC61347-1:2003 CE(EMC+LVD)					
Voltage proof	I/P-O:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
Isolation resistance	I/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25 ℃/70% RH					
EMC irradiation	EN 55022A:2006;EN61000 -3-2:1995+A2:2005					
EMC disturbance	EN 61000-3-2:2006;					
Dimensions	218*95*50mm(L*W*H)					
Packing	0.60kg/PCS;25PCS/15kg					
1. Unless specially in	dicated, all data	a are taken unde	r 230VAC input,	rated load and 2	25℃ environme	nt temp.
2. Ripple and noise: measured with a 12" double ripple cord connected in parallel with a 0.1µF and a 47 µF capacitor on 20MHz						
3.Tolerance(Accuracy): including preset errors, linear adjustment rate and load adjustment rate.						
4.Linear adjustment: taken under rated load from low voltage to high voltage.						
5.Load adjustment:	taken under 0~:	100% of rated lo	ad.			
_	Rated PowerRipple and Noise(Max)Note.2VoltageVoltagetolagetolagetolagetolagetolageandriseHolduptimeVoltage rangeFrequency rangeEfficiency (Typ)ACcurrentSurgeUnrush)Leakage CurrentOverloadOvervoltageWorking temp.Working humidityStorageStorageTemp. coefficientVibration proofSafety regulationVoltage proofIsolation resistanceEMC irradiationEMC disturbanceDimensionsPacking1. Unless specially ir2.Ripple and noise: n3.Tolerance(Accurac4.Linear adjustment5.Load adjustment:	Rated Power250WRipple and Noise(Max)Note.2150mVp-pVoltage10.8-13.2VVoltage tolerance±1%Linear Regulation±0.5%Load Regulation±0.5%Setup and riseHold up timeVoltage rangeFrequency rangeEfficiency (Typ)80%AC currentSurge (Inrush)Leakage CurrentOverloadOverloadProvident of the second o	Rated Power250W250WRipple and Noise(Max)Note.2150mVp-p240mVp-pVoltage10.8-13.2V22-27.6VVoltage tolerance±1%±1%Linear Regulation±0.5%±0.5%LoadRegulation±0.5%±0.5%LoadRegulation±0.5%±0.5%SetupandriseHolduptimeVoltage rangeFrequency rangeEfficiency (Typ)80%82%ACcurrentSurge(Inrush)Leakage CurrentOverloadProtection type:Working temp2Working temp2Working temp2Working numidityStorage temp &Temp. coefficient10~500HZ,50Safety regulationGVoltage proofIIsolation resistanceI/P-O/EMC disturbanceDimensionsPacking1. Unless specially indicated, all data are taken unde2.Ripple and noise: measured with a 12" double ripp3.Tolerance(Accuracy): including preset errors, linea4.Linear adjustment: taken under 0~100% of rated load	Rated Power250W250WRipple and Noise(Max)Note.2150mVp-p240mVp-pVoltage10.8-13.2V22-27.6VVoltagetolerance $\pm 1\%$ $\pm 1\%$ LinearRegulation $\pm 0.5\%$ $\pm 0.5\%$ LoadRegulation $\pm 0.5\%$ $\pm 0.5\%$ Setupandrise1000ms,30msHolduptime $50ms/$ Voltage rangeFrequency rangeEfficiency (Typ)Row82%ACCurrentSurge(Inrush)ColdProtection type: Hiccup mode, recOverloadProtection type: Hiccup mode, recOverload $-20 \sim +60^{\circ}C$ (PleasWorking temp. $-20 \sim +60^{\circ}C$ (PleasWorking humidity $20 \sim 90$ Storagetemp &Temp. coefficient ± 0.0 Vibration proof $10 \sim 500HZ,5G$ 10min/1 cycleSafety regulationGB195110.1-2004Voltage proof $I/P-O/P, I/P-FG,O/P-FiEMC disturbanceEffDimensions218Packing0.601. Unless specially indicated, all data are taken under 230VAC input,2. Ripple and noise: measured with a 12" double ripple cord connect3. Tolerance(Accuracy): including preset errors, linear adjustment ra4. Linear adjustment: taken under rated load from low voltage to hig5. Load adjustment: taken under rated load.$	Rated Power250W250WNupple and Noise(Max)Note.2150mVp-p240mVp-pVoltage10.8-13.2V22-27.6VVoltage10.8-13.2V22-27.6VVoltagetolerance±1%±1%LinearRegulation±0.5%±0.5%LoadRegulation±0.5%±0.5%LoadRegulation±0.5%±0.5%LoadRegulation±0.5%±0.5%Setupand rise1000ms,30ms/230VAC 100ms/1Holduptime50ms/230VAC 100ms/1Voltage rangeSOHZEfficiency (Typ)Requency range50HZEfficiency (Typ)80%82%ACcurrent1.8A/220VSurge (Inrush)Cold start:Cold start:65A/230'Leakage Current<2mA/240VAC	Rated Power 250W 250W 250W Repdet and Note(Ham)Note.2 150mVp-p 240mVp-p

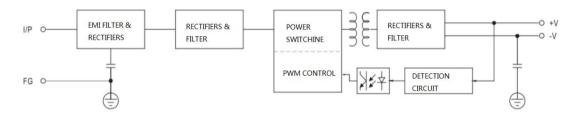


Appearance

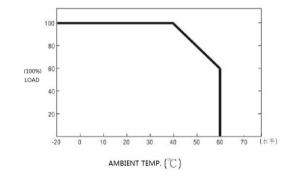




Frame diagram



Derating curve



Static Characteristics

