500W Single Output Switching Power Supply

Technical Data

Index Type	SP-500-12	SP-500-13.5	SP-500-15	SP-500-24	SP-500-27	SP-500-48
DC Voltage	12V	13.5V	15V	24V	27V	48V
Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%
Rated Current	40A	36A	32A	20A	18A	10A
Current Range	0-40A	0-36A	0-32A	0-20A	0-18A	0-10A
Ripple&Noise(Max.)	240mVp-p	240mVp-p	240mVp-p	240mVp-p	200mVp-p	300mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Rated Power	480W	486W	480W	480W	486W	480W
Efficiency	84%	84%	83%	85.5%	86.5%	87%
Voltage Adjust Range	10-13.2V	12-15V	13.5-18V	20-26.4V	24-30V	41-56V
Voltage Range	88~264VAC 47-63Hz;124~370VDC					
AC Current	7A/115V3.5A/230V					
Inrush Current(Max.)	18A/115V36A/230V					
Leakage Current	<3.5mA/240VAC					
Overload Protection	105-135% TYPE：Current limitation auto recovery					
Over-voltage Protection	13.8-16.2V	15.5-18.2V	18-21V	27.6-32.4V	31-36.5V	57.6-67.2V
Over-temperature Protection	≥55℃FAN ON ≤45℃FAN OFF ≥70℃OUTPUT CUTOUT					
Temp.Coefficient	±0.03%/℃(0~50℃)					
Setup.Rise,Hold Time	1.5s,50ms,20ms					
Vibration	10~500Hz,2G10min,/11cycle,60min,each axes					
Withstand Voltage	I/P-O/P:3KVACI/P-FG:1.5KVACI/P-FG:0.5KVAC					
Isolated Resistor	I/P-O/P,I/P-FG,I/P-FG:500VDC/100MΩ					
Working Temp.Humidity	-10℃~+50℃,20%~90RH					
Storage Temp.Humidity	-20℃~+85℃,10%~95%RH					
Dimension	185×120×93mm					
Weight	1.8kg					
Safety Standards	UL1950					
EMC	CISPR22(EN 55022),IEC1000-4,2,3,4,5,6,8,11 IEC1000-3-2					

Note：
1.All parameters NOT specially mentioned are measured at 230VAC input ,rated load and 25 of ambient temperature.
2.Tolerance:includes set up tolerance,line regulation and load regulation
3.Ripple&noise are measured at 20MHZ of bandwidth by using a 12 twisted pair-wire terminated with a 0.1uf&47uf parallel capacitor.
4.Line regulation:min&max voltage of the rated load.
5.Load regulation:load from 0 to 100%