



500W Single Output with PFC Function

500W
MW SP-500 series



Features :

- . Universal AC input / full range
- . Built-in active PFC function
- . Protections: Short circuit / Over load / Over voltage / Over temperature
- . Forced air cooling by built-in ball bearing fan
- . High efficiency, Low working temperature
- . Soft start circuit, limiting AC surge current
- . Built-in EMI filter, Low ripple noise
- . 100% full load burn-in test
- . Low cost , High reliability

.3 years warranty



Model	SP500-12	SP500-13.5	SP500-15	SP500-24	SP500-27	SP500-48
DC output voltage	12V	13.5V	15V	24V	27V	48V
Output voltage tolerance	±1%	±1%	±1%	±1%	±1%	±1%
Output rated current	40A	36A	32A	20A	18A	10A
Output current range	0~40A	0~36A	0~32A	0~20A	0~18A	0~10A
Ripple & noise	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%
DC output power	480W	486W	480W	480W	486W	480W
Efficiency	84%	84%	83%	85.5%	86.5%	87%
DC voltage adjustment (V)	10~13.2V	12~15V	13.5~18V	20~26.4V	24~30V	41~56V
Input voltage range	88~264VAC 47~63Hz ; 124~370VDC					
AC current	7A/115V 36A/230V					
Power factor	0.95 /100~240VAC					
Inrush current	18A/115V ; 36A/230V					
Leakage current	<3.5mA/240VAC					
Over-load protection	105~135% Type : foldback current limiting Reset : auto recovery					
Over-voltage protection	13.8~16.2	15.5~18.2	18~21	27.6~32.4	31~36.5	57.6~67.2
Temperature coefficient	±0.03% /°C (0°~50°C)					
Set-up, Rise, Hold-up time	1.5s, 50ms, 20ms					
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. Each axes					
Withstand voltage	I/P-O/P: 3KVACVAC I/P-FG: 1.5 KVAC ; O/P-FG : 0.5 KVAC					
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG : 500 VDC /100MΩ					
Working temp. & humidity	-10°C~+50°C (refer to output derating curve) 20~90% R.H.					
Storage temp. & humidity	-20°C~+85°C, 10%~95% R.H. (non-condensing)					
Dimensions	185 x 120 x 93 mm (Length x Width x Height) case 910					
Weight / Packing	1.8 kg/pc ; Box of 8pcs : 14Kgs					
Safety standards	UL1950, TUV EN60950 approved					
EMC standards	CISPR22 (EN55022), IEC1000-4-2,3,4,5,6,8,11 ; IEC1000-3-2 verification					
Notes:	-All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient. - Tolerance include setup tolerance, line regulation, load regulation. - Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF capacitor. - Line regulation is measured from low line to high line at rated load. - Load regulation is measured from 0% to 100% rated load					

