



300 W

300 W Single output with PFC Switching power supply **MW SP300** series**Features :**

- . Universal AC input / Full range
- . Protection : short circuit / over load / over voltage / over temp
- . Approvals : UL / CUL / TUV / CB / CE
- . Forced air cooling by built-in DC fan
- . Cooling fan on/off auto-control
- . Remote ON/OFF control (option)
- . Fix switching frequency at 110KHz
- . 100% full load burn-in test

3 years warranty



Model	SP300-5	SP300-7.5	SP300-12	SP300-13.5	SP300-15	SP300-24	SP300-27	SP300-48
DC output voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
Output voltage tolerance	+2%	+2%	+1%	+1%	+1%	+1%	+1%	+1%
Output rated current	50A	34A	24A	21A	19A	12.5A	11A	6.25A
Output current range	0~50	0~34	0~24	0~21	0~19	0~12.5	0~11	0~6.25
Ripple & noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
Line regulation	+0.5%	+0.5%	+0.3%	+0.3%	+0.3%	+0.2%	+0.2%	+0.2%
Load regulation	+1%	+1%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%
DC output power	250W	255W	288W	285W	285W	300W	297W	300W
Efficiency	75%	80%	82%	83%	83%	85%	86%	85%
DC voltage adjustment (V)	4.5~5.7	6~9	10~13.2	12~15	13.5~18	20~26.4	26~32	41~56
Input voltage range	88-132VAC / 176-264VAC auto switch; 47-63Hz; 248-370 VDC							
AC current	4A / 115 V; 2A 230 V							
Inrush current	18A/115V 36A/230V							
Leakage current	<2mA/240VAC							
Over-load protection	105~135% Type: pulsing hiccup shutdown Reset: auto-recovery							
Over-voltage protection	5.5~6.75	9.4~10.9	13.8~16.2	15.5~18.2	18~21	27.6~32.4	33.7~39.2	57.6~67.2
Fan control O.T.P.	RTH1 or RTH2 >=50°C fan on; <=45°C fan off; >=70°C output shutdown							
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	215 x 115 x 50 mm (Length x Width x Height) case 912							
Weight	1.2 Kg							
Safety standards	UL 1950, 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 - Refer to output derating curve vs input voltage							



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