

# SP 300

# Single

# 300W

PFC



Country of Origin : Taiwan  
 Operating Temperature : -10 ~ 50° C  
 Dimension : 215 x 115 x 50 mm  
 Approvals / Marks : UL, c-UL, TÜV, CB, CE

### Features:

Universal AC input / full range with Power Factor Correction  
 Forced air cooling by built-in DC fan  
 Cooling fan ON/OFF auto control  
 Over load, over voltage, over temperature & short circuit protection  
 100% full load burn-in test  
 1 year warranty

### Specification:

MODEL	SP-300-5	SP-300-7.5	SP-300-12	SP-300-13.5	SP-300-15	SP-300-24	SP-300-27	SP-300-48	
OUTPUT	Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	min. Load	0A	0A	0A	0A	0A	0A	0A	0A
	max. Load	50A	34A	24A	21A	19A	12.5A	11A	6.25A
	Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Ripple & Noise (max)	150mV	150mV	150mV	150mV	150mV	150mV	200mV	240mV
Efficiency (typ)	75%	80%	83%	83%	83%	85%	86%	85%	
Max. Output Power	250W	255W	288W	285W	285W	300W	297W	300W	
Output Voltage adjustment range	-5 ~ +10% of rated output voltage								
INPUT	Voltage	88 ~ 264VAC / 120 ~ 370VDC Universal full range							
	Frequency	47 ~ 63 Hz							
	Current	4A@115VAC / 2A@230VAC							
	Inrush Current	<18A@115VAC / <36A@230VAC							
	Leakage Current	<2mA@240VAC							
	P.F.C.	>0.98@115VAC / >0.95@230VAC							
PROTECTION	Over Load	105% ~ 135% of rated output voltage, Hiccup mode, auto recovery after fault has been removed							
	Over Voltage	110% ~ 145% of rated output voltage, Hiccup mode, auto recovery after fault has been removed							
		5.5~6.75V	9.4~10.9V	13.8~16.2V	15.5~18.2V	18 ~ 21V	27.6~32.4V	33.7~39.2V	57.6~67.2V
	Over Temp.	> 70°C Shutdown							
Short Circuit	Yes								
OTHERS	Setup time	< 1500ms @ 230VAC full load							
	Rise time	< 50ms @ 230VAC full load							
	Holdup time	> 20ms @ 230VAC full load							
	Cooling	Forced air cooling by built-in DC fan / ≤ 45°C fan off , ≥ 50°C fan on							
	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC / 1 minute							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG : 500VDC / 100M Ohm							
Switching Frequency	110KHz (fixed)								
Environment	Temperature	Operating: -10 ~ 60°C / Derating: -10 ~ 0°C: 2%/°C , 40 ~ 50°C: 4%/°C / Storage: -20 ~ 85°C							
	Humidity	Operating: 20 ~ 90% RH / Storage: 10 ~ 95% RH							
Connection	9P/ 9.5mm pitch terminal block with cover								
M.T.F.B.	> 168K hours ( according to MIL-HDBK-217F at 25°C environment)								
SAFETY	Approved: UL 1950 / TÜV EN60950								
EMC	EMI	EN55022 CLASS B / EN61000-3-2,3							
	EMS	EN61000-4-2,3,4,5,6,8,11 / ENV50204							
WEIGHT	N.W.: 1.18 kg/pc								