

300W Single Output Switching Power Supply



- Features :
- Universal AC input / Full range
 - Protections: Short circuit/Over load/Over voltage
 - Forced air cooling by built-in DC fan
 - PWM control and regulated
 - Built-in cooling Fan ON-OFF control
 - 100% full load burn-in test
 - Fixed switching frequency at 25KHz
 - Low cost

SPECIFICATION

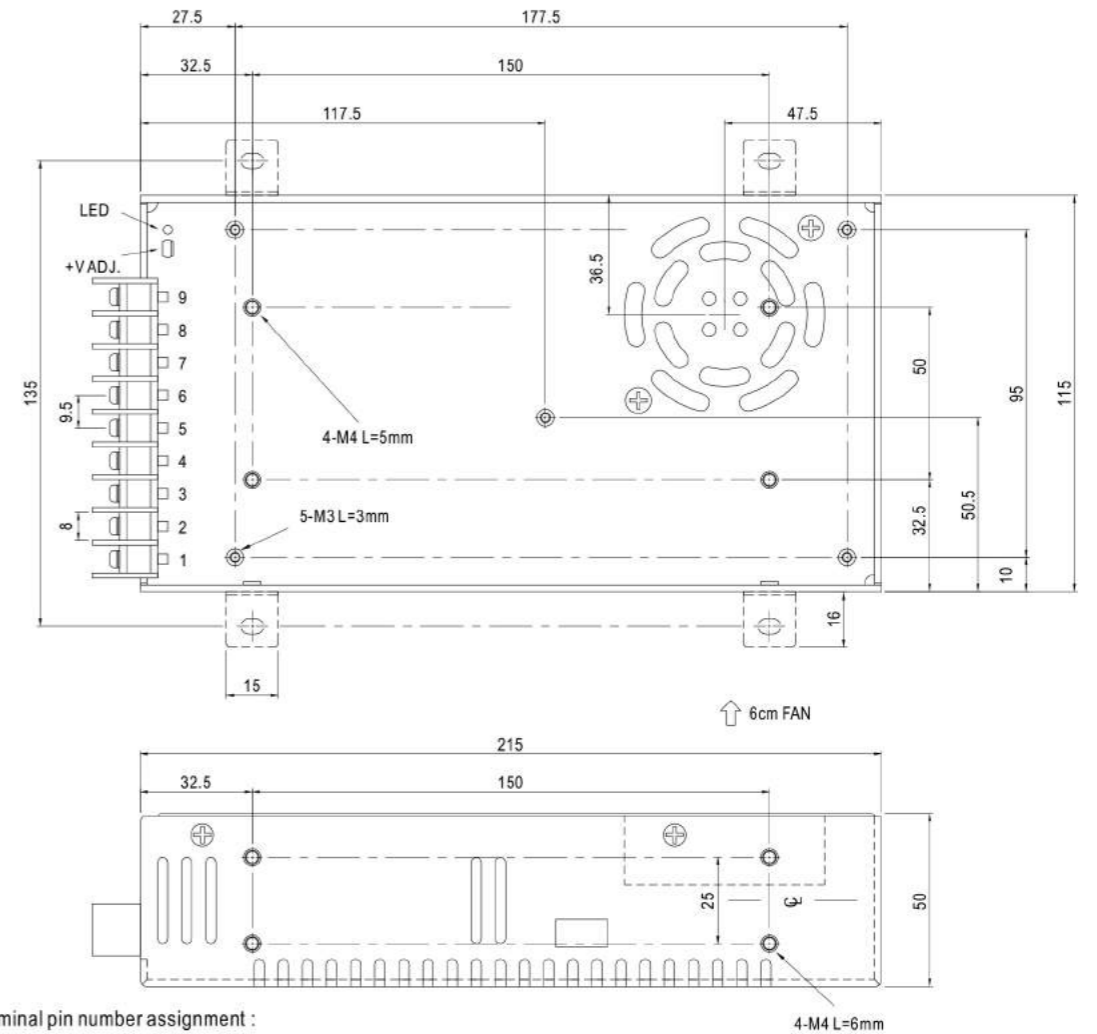
MODEL	S-300-5	S-300-7.5	S-300-12	S-300-13.5	S-300-15	S-300-24	S-300-27	S-300-48	
OUTPUT	DC VOLTAGE	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	50A	40A	25A	22A	20A	12.5A	11A	6A
	CURRENT RANGE	0 ~ 50A	0 ~ 40A	0 ~ 25A	0 ~ 22A	0 ~ 20A	0 ~ 12.5A	0 ~ 11A	0 ~ 6A
	RATED POWER	250W	300W	300W	297W	300W	297W	288W	288W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.6V	6 ~ 9V	10 ~ 13.2V	12 ~ 15V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 32V	41 ~ 56V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
SETUP, RISE, HOLD TIME	200ms, 50ms, 20ms at full load								
INPUT	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch 254 ~ 370VDC							
	FREQUENCY RANGE	47~63Hz							
	EFFICIENCY (Typ.)	73%	76%	74%	79%	78%	81%	82%	83%
	AC CURRENT	6.5A/115VAC		4A/230VAC					
	INRUSH CURRENT (max.)	50A/115VAC		50A/230VAC					
LEAKAGE CURRENT	<3.5mA / 240VAC								
PROTECTION	OVER LOAD	105~135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	5.75 ~ 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
FUNCTION	FAN ON/OFF CONTROL	RTH3 ≥ 55°C FAN ON, ≤ 45°C FAN OFF, ≥ 80°C output shutdown (5 ~ 7.5V)							
		RTH3 ≥ 65°C FAN ON, ≤ 55°C FAN OFF, ≥ 80°C output shutdown (12 ~ 15V)							
		RTH3 ≥ 70°C FAN ON, ≤ 60°C FAN OFF, ≥ 85°C output shutdown (24 ~ 48V)							
ENVIRONMENT	WORKING TEMP.	-10 ~ +50°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)							
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P: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							
	MTBF	234.3K hrs min.		MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	215*115*50mm (L*W*H)							
	PACKING	1.07Kg; 12pcs/13.5Kg/0.92CUFT							
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation.								



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■ Mechanical Specification

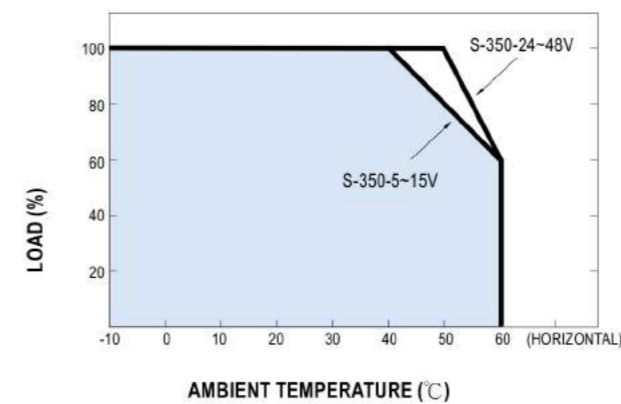
Case No. 912 Unit:mm



Terminal pin number assignment :

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	-V
2	AC/N	7~9	+V
3	FG		

■ Derating Curve



■ Static Characteristics (24V)

