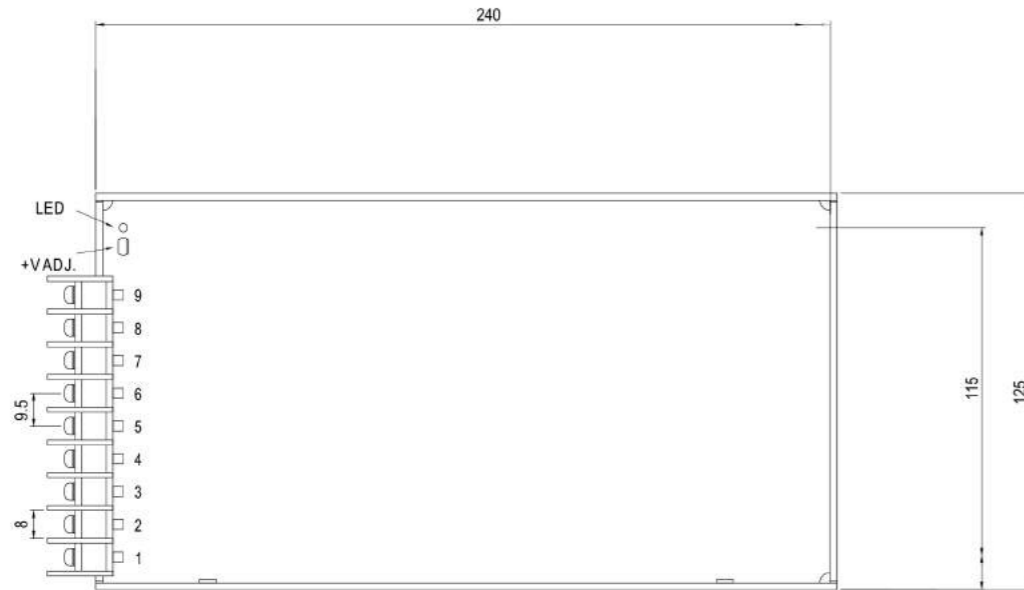


500W Single Output Switching Power Supply

■ Mechanical Specification

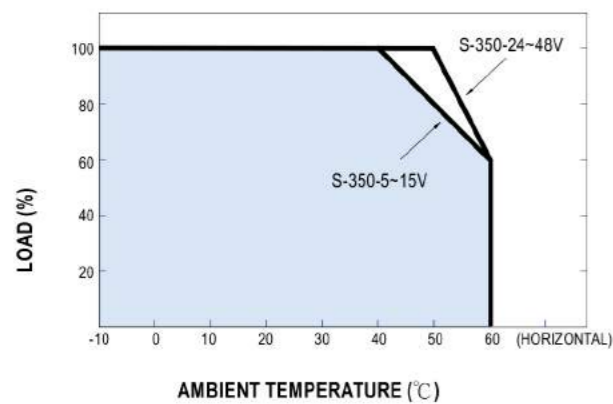
Case No. 913 Unit:mm



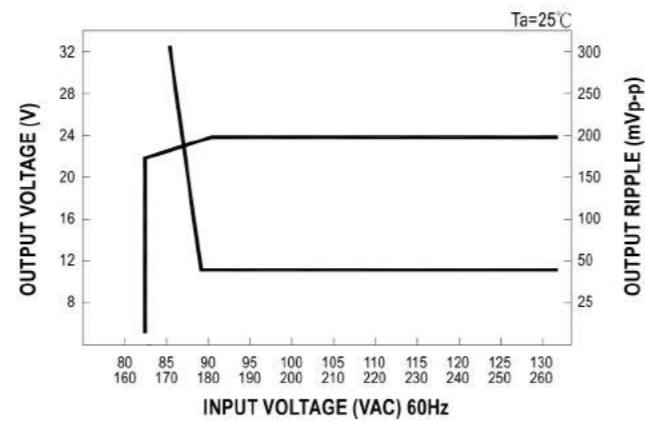
Terminal pin number assignment :

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)



500W 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
- 1 year warranty



SPECIFICATION

MODEL	S-500-5	S-500-12	S-500-15	S-500-24	S-500-27	S-500-48		
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	27V	48V	
	RATED CURRENT	80A	41A	33.3A	20.8A	18A	10 A	
	CURRENT RANGE	0 ~ 80A	0 ~ 41A	0 ~ 33.3A	0 ~ 20.8A	0 ~ 18A	0 ~ 10 A	
	RATED POWER	400W	492W	499W	499.2W	486W	480.0W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 15V	10 ~ 13.2V	13.5 ~ 18V	20 ~ 26.4V	26 ~ 32V	41 ~ 56V	
	VOLTAGE TOLERANCE Note.3	±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%	
LOAD REGULATION	±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.)	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
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	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	WITHSTAND VOLTAGE	I/P-O/P: 1.5KVAC	I/P-FG: 1.5KVAC	O/P-FG: 0.5KVAC				
OTHERS	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)					
NOTE	DIMENSION	240*125*65mm (L*W*H)						
	PACKING	1.90Kg; 12pcs/13.5Kg/0.92CUFT						

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.