

600W 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



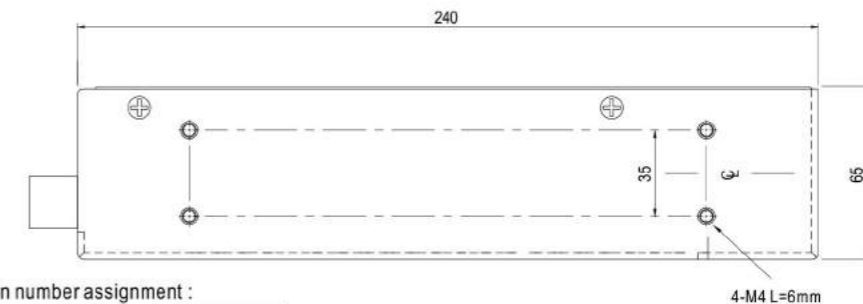
SPECIFICATION

MODEL	S-600-12	S-600-13.5	S-600-15	S-600-24	S-600-27	S-600-48		
OUTPUT	DC VOLTAGE	12V	13.5V	15V	24V	27V	48V	
	RATED CURRENT	50A	44.4A	40A	25A	22A	12.5A	
	CURRENT RANGE	0 ~ 50A	0 ~ 44.4A	0 ~ 40A	0 ~ 25A	0 ~ 22A	0 ~ 12.5A	
	RATED POWER	600W	599.4W	600W	600W	594W	600W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	10 ~ 13.2V	12 ~ 15V	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	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	240*125*65mm (L*W*H)						
	PACKING	1.90Kg; 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

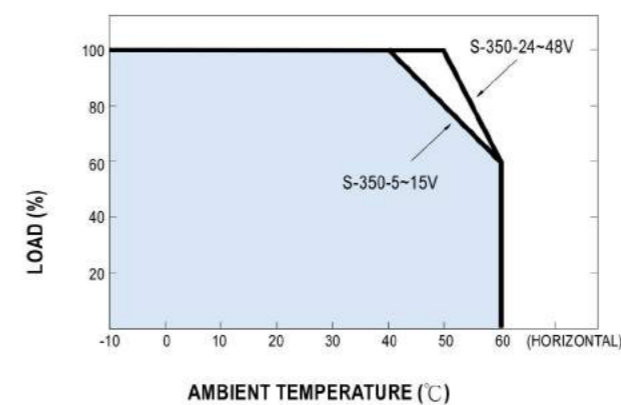
Case No. 913 Unit:mm



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)

