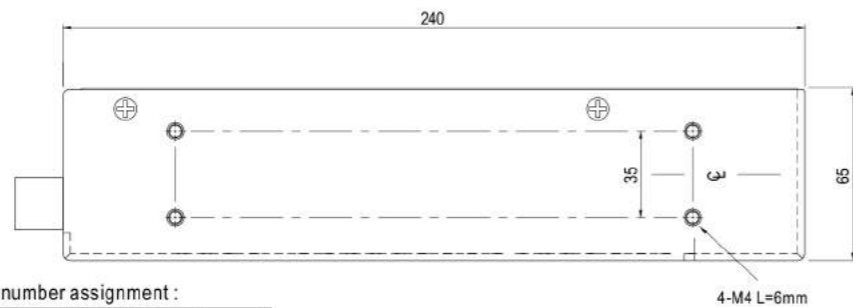
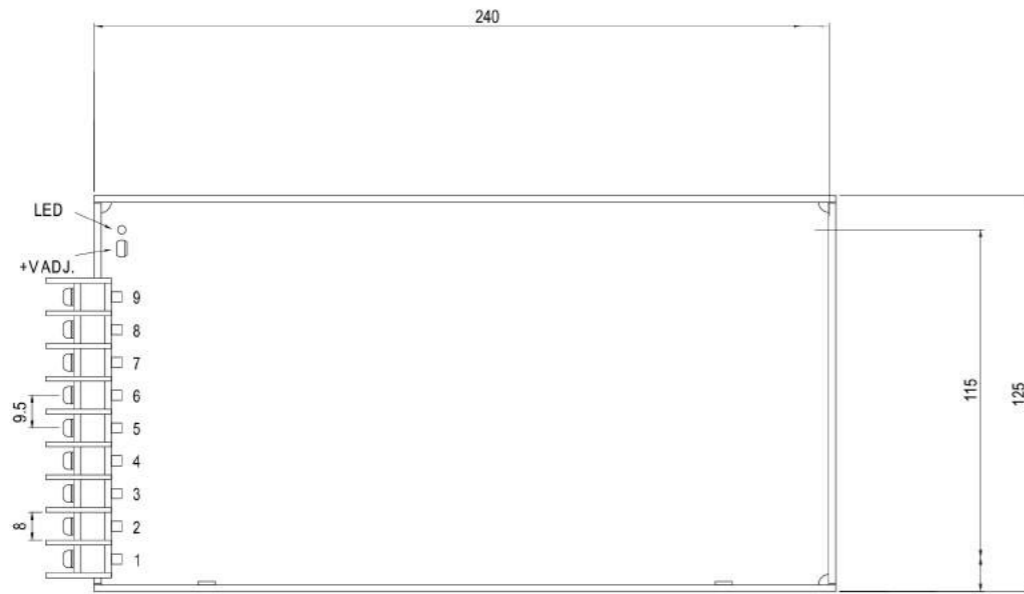


650W Single Output Switching Power Supply

■ Mechanical Specification

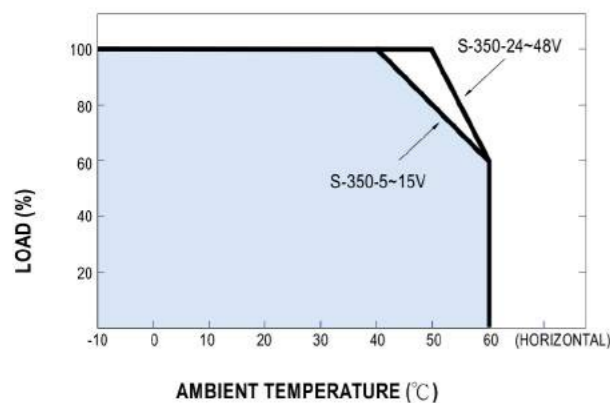
Case No. 913 Unit:mm



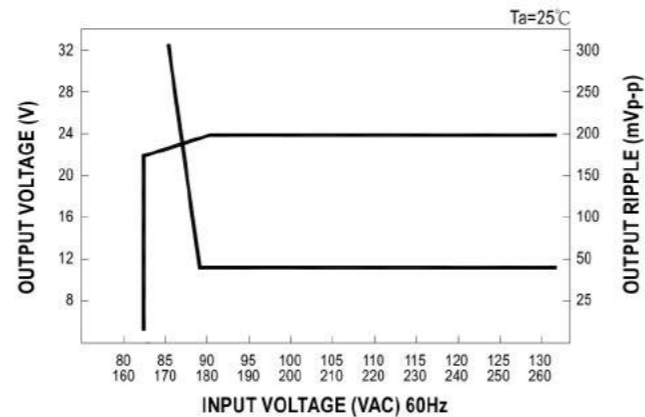
Terminal pin number assignment :

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)



650W 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-650-12	S-650-13.5	S-650-15	S-650-24	S-650-27	S-650-48	
OUTPUT	DC VOLTAGE	12V	13.5V	15V	24V	27V	48V
	RATED CURRENT	54A	48A	43A	27A	24A	13.5A
	CURRENT RANGE	0 ~ 54A	0 ~ 48A	0 ~ 43A	0 ~ 27A	0 ~ 24A	0 ~ 13.5A
	RATED POWER	650W	650W	650W	650W	650W	650W
	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 57.6 ~ 67.2V
FUNCTION	FAN ON/OFF CONTROL	RTH3 ≥ 65°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)					
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
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					
OTHERS	MTBF	234.3K hrs min. MIL-HDBK-217F (25°C)					
	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.						