



75W Single Output Switching Power Supply

RS-75 series



■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105°C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70°C
- Withstand 5G vibration test
- No load power consumption<0.5W
- High efficiency, long life and high reliability
- 3 years warranty

User's Manual



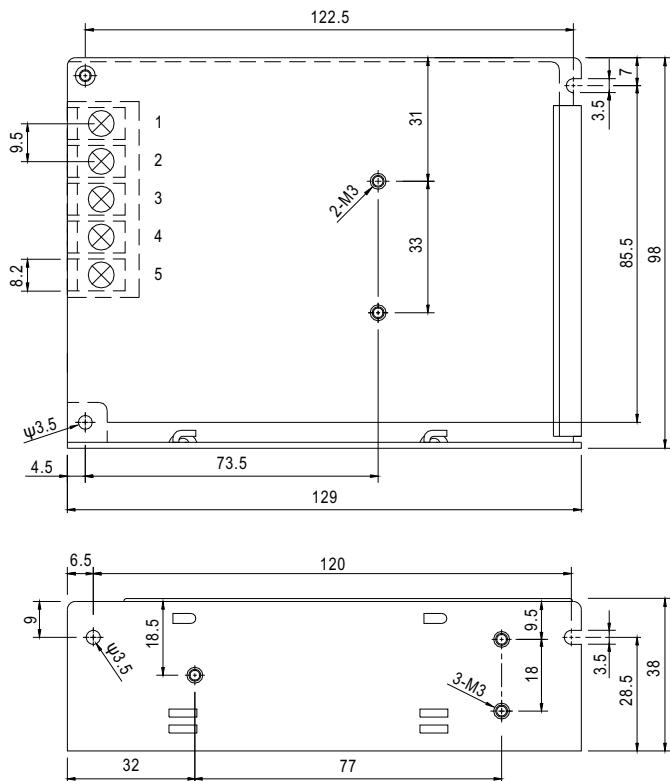
SPECIFICATION



MODEL	RS-75-3.3	RS-75-5	RS-75-12	RS-75-15	RS-75-24	RS-75-48				
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V				
	RATED CURRENT	15A	12A	6A	5A	3.2A				
	CURRENT RANGE	0 ~ 15A	0 ~ 12A	0 ~ 6A	0 ~ 5A	0 ~ 3.2A				
	RATED POWER	49.5W	60W	72W	75W	76.8W				
	RIPLINE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p				
	VOLTAGE ADJ. RANGE	3V ~ 3.6V	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	22 ~ 27.6V				
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%				
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%				
	LOAD REGULATION Note.5	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%				
	SETUP, RISE TIME	500ms, 30ms/230VAC	1200ms, 30ms/115VAC at full load							
INPUT	HOLD UP TIME (Typ.)	60ms/230VAC	14ms/115VAC at full load							
	VOLTAGE RANGE	88 ~ 264VAC	125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)							
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY(Typ.)	75%	79%	84.5%	86%	88.5%				
	AC CURRENT (Typ.)	2A/115VAC	1.2A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC								
PROTECTION	LEAKAGE CURRENT	<2mA / 240VAC								
	OVERLOAD	110 ~ 150% rated output power								
		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	3.8 ~ 4.45V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V				
ENVIRONMENT		Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
SAFETY & EMC (Note 6)	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, AS/NZS 62368.1, EAC TP TC 004 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-FG:2KVAC	O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms	/ 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2, -3, EAC TP TC 020								
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020								
OTHERS	MTBF	265Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	129*98*38mm (L*W*H)								
	PACKING	0.41Kg; 30pcs/13.3Kg/0.86CUFT								
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.								
	4.	Line regulation is measured from low line to high line at rated load.								
	5.	Load regulation is measured from 0% to 100% rated load.								
	6.	The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)								
	7.	The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).								
	※	Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								

■ Mechanical Specification

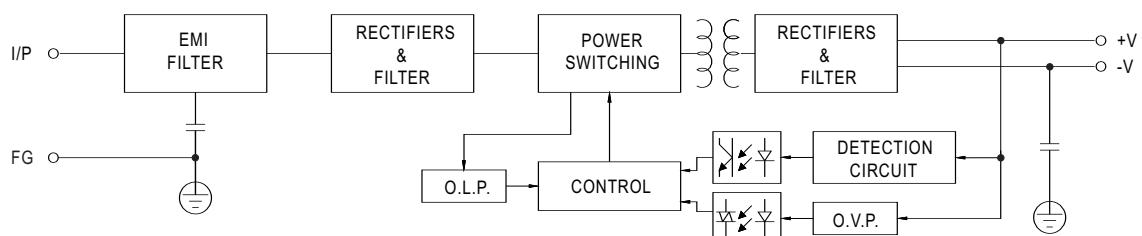
Case No. 903 Unit:mm



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG \pm		

■ Block Diagram



fosc : 60KHz

■ Derating Curve

■ Output Derating VS Input Voltage

