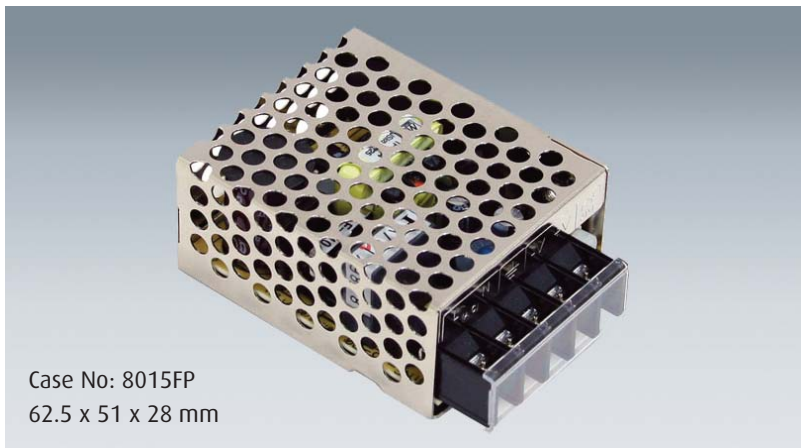


RS-15 Series

15W Single Output Switching Power Supplies



Case No: 8015FP
62.5 x 51 x 28 mm

Features

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage/Over temperature
- 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
- High efficiency, long life and high reliability



Specification

INPUT	Voltage	85~264VAC universal full range or 120~370VDC					
	Frequency	47 ----- 63 Hz					
	Current	<0.35A@115V, 0.25A@230V AC input					
	Inrush Current	<50A@230V AC input, Cold start at 25°C ambient					
	Leakage Current	<2.0mA@240V AC input					
OUTPUT	MODEL No.	RS-15-3.3	RS-15-5	RS-15-12	RS-15-15	RS-15-24	RS-15-48
	Voltage	3.3V	5V	12V	15V	24V	48V
	Rated Load	3A	3A	1.3A	1A	0.625A	0.313A
	Range Load	0~3A	0~3A	0~1.3A	0~1A	0~0.625A	0~0.313A
	Output Tolerance	± 3%	± 2%	± 1%	± 1%	± 1%	± 1%
	Line Regulation	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	Load Regulation	± 2%	± 1.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	Ripple Noise MAX.	80mV	80mV	120mV	120mV	200mV	200mV
	Efficiency (TYP.)	72%	77%	81%	81%	82%	82%
	Power	9.9W	15W	15.6W	15W	15W	15W
PROTECTION	Over Voltage	3.8~4.5V	5.75~6.75V	13.8~16.2V	17.25~20.25V	28.4~32.4V	55.2~64.8V
		Shutdown and latch off, recover after re-start up.					
	Over Temperature	Shutdown output voltage, recovers automatically after temperature goes down. (measured on U1)					
ELEC. CHAR.	Over Load & Short Circuit	When the power supply is over 105% max load or short circuited it will go into hiccup mode and recover automatically after the fault is removed.					
	Rise Time	<30mS at nominal AC input and full load					
	Hold up Time	>70mS@230VAC, 15ms @115VAC, full load condition					
	Setup Time	<1 Sec@100 240V AC					
	Leakage Current	<2mA @ 240VAC					
ENVIRONMENT	Temperature	Operating: -20 ~ +70°C ;Storage: -40~ +85°C					
	Humidity	Operating: 10% ~ 95% RH; Storage: 20% ~ 90% RH (non condensing)					
SAFETY	Withstand Voltage	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC					
	Safety Standard	UL 60950-1, TUV EN60950-1 approved.					
EMC	EMI	Compliance to EN 55022 CLASS B, EN61000-3-2,3					
	EMS	EN61000-4-2,3,4,5,6,8,11 ENV50204, EN55024, EN61000-6-1 Light industry level, Criteria A					
OTHERS	Cooling	Natural cooling.					
	M.T.B.F.	1608.8Khrs min. MIL-HDBK-217F (25°C)					
	Packing	0.13Kg, 108pcs/15Kg/0.71CUFT					

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.

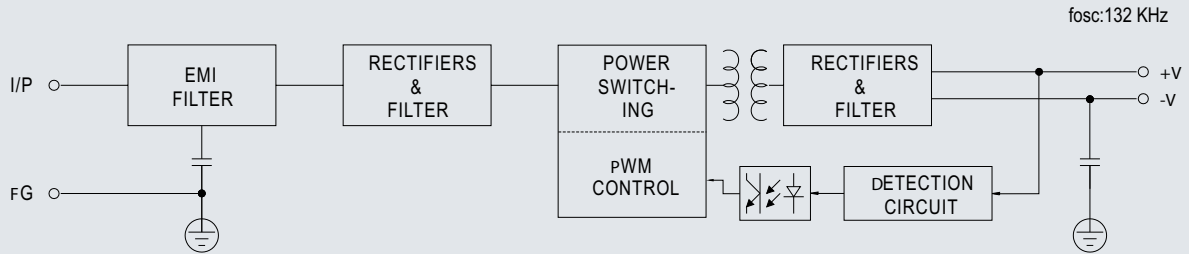
6 The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives

RS-15 Series

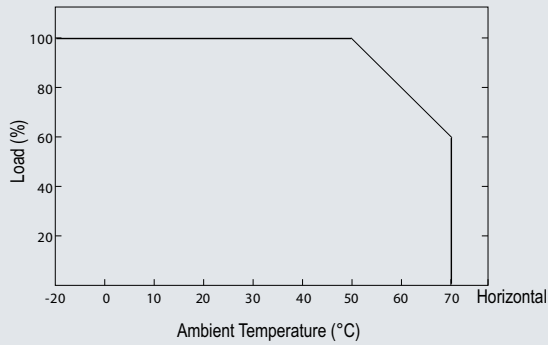
15W Single Output Switching Power Supplies



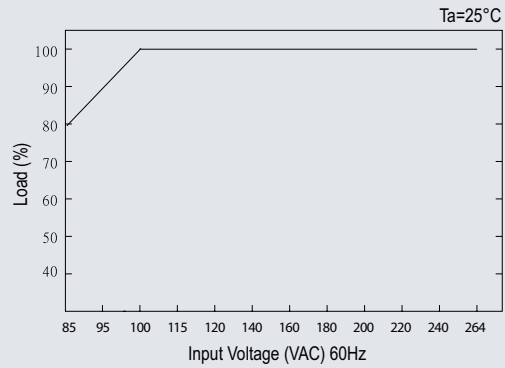
Block Diagram



De-Rating Curve



Output De-Rating Vs. Input Curve



Dimensions

Terminal Pin. No Assignment:

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

