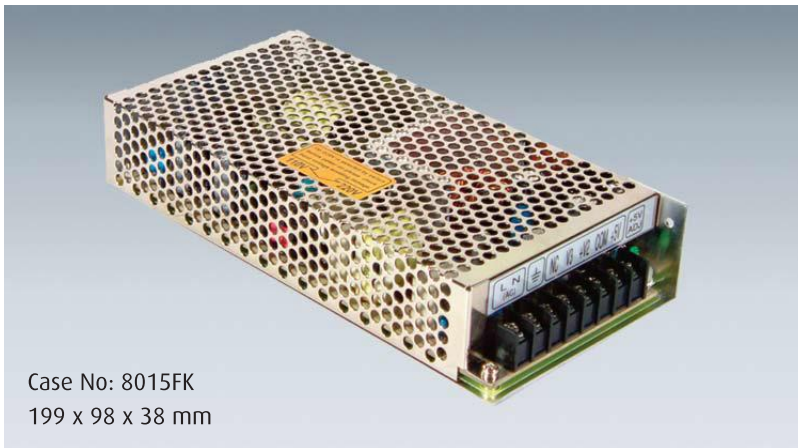


RT-125 Series

125W Triple Output Switching Power Supplies



Case No: 8015FK
199 x 98 x 38 mm

Features

- 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
- High efficiency, long life and high reliability



Specification

INPUT	Voltage	88V ~ 132VAC; 176~264VAC selectable by switch; universal full range or 248V ~ 373VDC					
	Frequency	47 ----- 63 Hz					
	Current	<3A@115V; 2A@230V AC input, full load					
	Inrush Current	<40A@230VAC input, Cold start at 25°C ambient					
	Leakage Current	<2.0mA@240V AC input					
OUTPUT	MODEL No.	RT-125A			RT-125B		
	Channel	CH1	CH2	CH3	CH1	CH2	CH3
	Voltage	5V	12V	-5V	5V	12V	-12V
	Rated Current	12A	5.5A	1A	12A	5A	1A
	Current Range	2~15A	0.5~6A	0.1~1A	2~15A	0.5~6A	0.1~1A
	Voltage Adj. Range	CH1: 4.75~5.5V			CH1:4.75~5.5V		
	Output Tolerance	± 2%	+8, -3%	+6, -10%	± 2%	+8, -3%	± 6%
	Line Regulation	± 0.5%	± 1%	± 1%	± 0.5%	± 1%	± 1%
	Load Regulation	± 1%	± 3%	± 6%	± 1%	± 3%	± 6%
	Ripple Noise MAX. 3	80mV	120mV	80mV	80mV	120mV	120mV
	Efficiency (TYP.)	79%			80%		
	Power	131W			132W		
PROTECTION	Over Voltage	CH1: 5.75~6.75V Hiccup mode, recovers automatically after fault condition is removed					
	Over Load	When the power supply is over 110%~ 150% max load or short circuited it will go into hiccup mode and recover automatically after the fault is removed.					
ELEC. CHAR.	Rise Time	<20mS@230VAC; 30mS@115VAC					
	Hold up Time	>25mS@230V, 30mS@115VAC full load					
	Setup Time	<0.5 Sec@230VAC; 1.2 Sec@115VAC					
ENVIRONMENT	Temperature	Operating: -25 ~ +70°C ; Storage: -40~ +85°C					
	Humidity	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% 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	UL60950-1, TUV EN60950-1 Approved					
EMC	EMI	Compliance to EN55022; EN61000-3-2,3					
	EMS	EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61000-6-2					
OTHERS	Cooling	Natural cooling					
	M.T.B.F.	209.3K hrs min. MIL-HDBK-217F (°C)					
	Packing	0.7Kg; 20pcs/14Kg/0.8 CUFT					

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 20% to 100% rated load, and other output at 60% rated load.

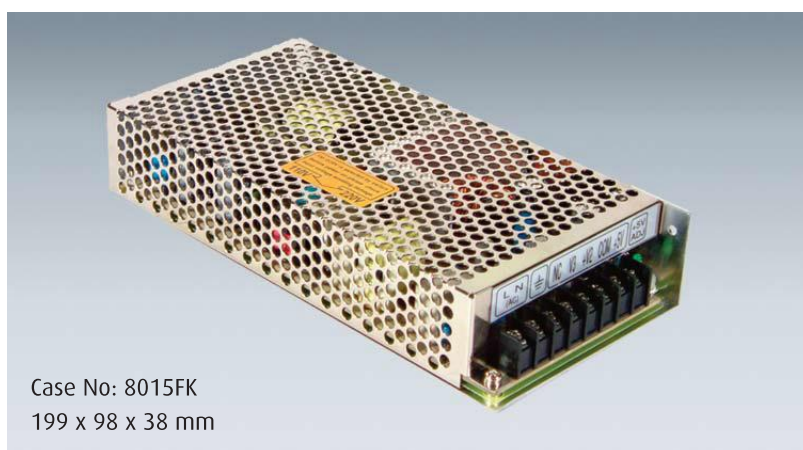
6 Each output can work within current range. But total output power can't exceed rated output power.

7 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.

8 Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.

RT-125 Series

125W Triple Output Switching Power Supplies



Case No: 8015FK
199 x 98 x 38 mm

Features

- 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
- High efficiency, long life and high reliability



Specification

INPUT	Voltage	88V ~ 132VAC; 176~264VAC selectable by switch; universal full range or 248V ~ 373VDC					
	Frequency	47 ~ 63 Hz					
	Current	<3A@115V; 2A@230V AC input, full load					
	Inrush Current	<40A@230VAC input, Cold start at 25°C ambient					
	Leakage Current	<2.0mA@240V AC input					
OUTPUT	MODEL No.	RT-125C			RT-125D		
	Channel	CH1	CH2	CH3	CH1	CH2	CH3
	Voltage	5V	15V	-15V	5V	24V	12V
	Rated Current	10A	4.5A	1A	8A	3A	2A
	Current Range	2~15A	0.5~6A	0.1~1A	2~15A	0.4~4A	0.1~2A
	Voltage Adj. Range	CH1: 4.75~5.5V			CH1: 4.75~5.5V		
	Output Tolerance	± 2%	+8, -3%	± 6 %	± 2%	± 5%	± 6%
	Line Regulation	± 0.5%	± 1%	± 1%	± 0.5%	± 1%	± 1%
	Load Regulation	± 1%	± 3%	± 6%	± 1%	± 3%	± 6%
	Ripple Noise MAX.	80mV	150mV	150mV	80mV	150mV	120mV
	Efficiency (TYP.)	81%			82%		
	Power	132.5W			136W		
	PROTECTION	Over Voltage	CH1: 5.75~6.75V				
Over Load		Hiccup mode, recovers automatically after fault condition is removed					
ELEC. CHAR.	Rise Time	<20mS@230VAC; 30mS@115VAC					
	Hold up Time	>25mS@230V, 30mS@115VAC full load					
	Setup Time	<0.5 Sec@230VAC; 1.2 Sec@115VAC					
ENVIRONMENT	Temperature	Operating: -25 ~ +70°C ; Storage: -40~ +85°C					
	Humidity	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% 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	UL60950-1, TUV EN60950-1 Approved					
EMC	EMI	Compliance to EN55022; EN61000-3-2,3					
	EMS	EN61000-4-2,3,4,5,6,8,11; ENV50204; EN61000-6-2					
OTHERS	Cooling	Natural cooling					
	M.T.B.F.	209.3K hrs min. MIL-HDBK-217F (°C)					
	Packing	0.7Kg; 20pcs/14Kg/0.8 CUFT					

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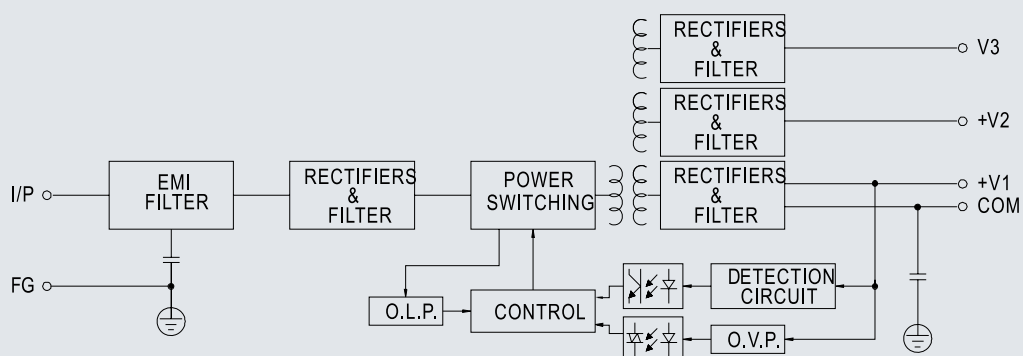
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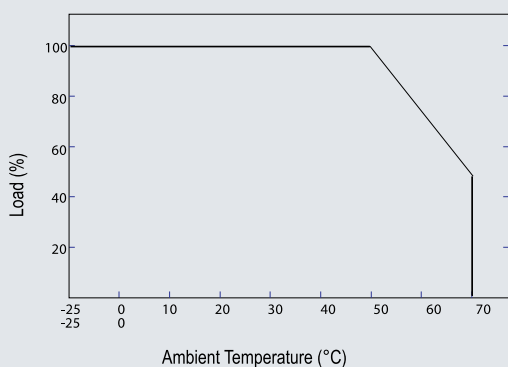
RT-125 Series

125W Triple Output Switching Power Supplies

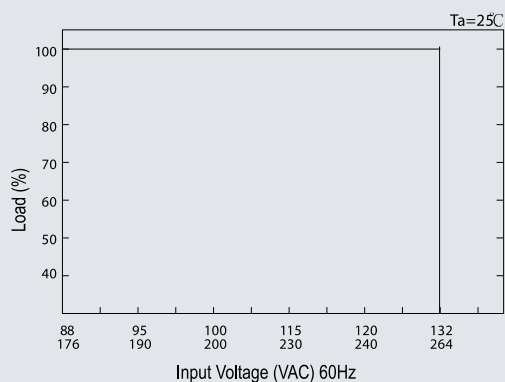
Block Diagram



De-Rating Curve



Static Characteristics



Dimensions

Terminal Pin. No Assignment:

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG
4	NC
5	DC OUTPUT V3
6	DC OUTPUT +V2
7	DC OUTPUT COM
8	DC OUTPUT +V1

