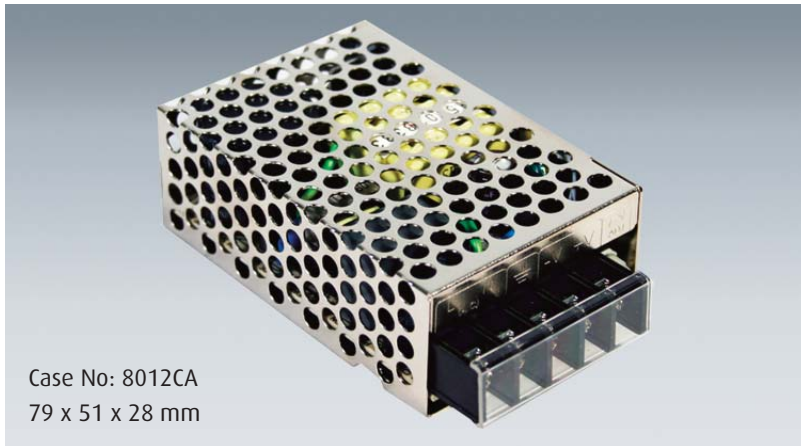


# RS-25 Series

25W Single Output Switching power supplies



Case No: 8012CA  
79 x 51 x 28 mm

## 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
- High efficiency, long life and highly reliable



## Specification

<b>INPUT</b>	<b>Voltage</b>	88V ~ 264VAC universal full range or 125V ~ 375VDC					
	<b>Frequency</b>	47 ----- 63 Hz					
	<b>Current</b>	<0.7A@115V, 0.4A@115VAC at full load					
	<b>Inrush Current</b>	<30A@230VAC, Cold start at 25°C ambient					
	<b>Leakage Current</b>	<2mA@240V AC input					
<b>OUTPUT</b>	<b>MODEL No.</b>	<b>RS-25-3.3</b>	<b>RS-25-5</b>	<b>RS-25-12</b>	<b>RS-25-15</b>	<b>RS-25-24</b>	<b>RS-25-48</b>
	<b>Voltage</b>	3.3V	5V	12V	15V	24V	48V
	<b>Rated Load</b>	6A	5A	2.1A	1.7A	1.1A	0.57A
	<b>Range Load</b>	0~6A	0~5A	0~2.1A	0~1.7A	0~1.1A	0~0.57A
	<b>Output Tolerance</b>	± 3%	± 2%	± 1%	± 1%	± 1%	± 1%
	<b>Line Regulation</b>	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	<b>Load Regulation</b>	± 2%	± 1%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	<b>Ripple Noise MAX.</b>	80mV	80mV	120mV	120mV	120mV	200mV
	<b>Efficiency (TYP.)</b>	72%	77%	79%	82%	84%	85%
	<b>Power</b>	19.8W	25W	25.2W	25.5W	26.4W	27.36W
<b>PROTECTION</b>	<b>Over Voltage</b>	3.8~4.5V	5.8~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V	55.2~64.8V
		Shutdown and latch off, recover after re-start up					
	<b>Over Load &amp; Short Circuit</b>	When the power supply is over 110%~ 180% max load or short circuited it will go into hiccup mode and recover automatically after the fault is removed					
<b>ELEC. CHAR</b>	<b>Rise Time</b>	<30mS nominal AC input and full load					
	<b>Hold up Time</b>	>80mS@230V, 14ms@115VAC at full load					
	<b>Setup Time</b>	<1.2 Sec@230VAC 2.2 Sec@115VAC					
<b>ENVIRONMENT</b>	<b>Temperature</b>	Operating: -20 ~ +70°C ; Storage: -40~ +85°C					
	<b>Humidity</b>	Operating: 20% ~ 90% RH; Storage: 10% ~ 95% RH (non condensing)					
<b>SAFETY</b>	<b>Withstand Voltage</b>	I/P-O/P:3KVAC, I/P-FG:1.5KVAC, O/P-FG:0.5KVAC, 1minute					
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC					
	<b>Safety Standard</b>	UL60950-1, TUV EN60950-1 Approved					
<b>EMC</b>	<b>EMI</b>	Compliance to EN55022 Class B, EN61000-3-2,3					
	<b>EMS</b>	EN61000-4-2,3,4,5,6,8,11; ENV5024					
<b>OTHERS</b>	<b>Cooling</b>	Natural cooling					
	<b>M.T.B.F.</b>	309.7Khrs min. MIL-HDBK-217F (25°C) ground benign					
	<b>Packing</b>	0.2Kg; 60pcs/13Kg/0.57CUFT					

1 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25of 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% ratedload.

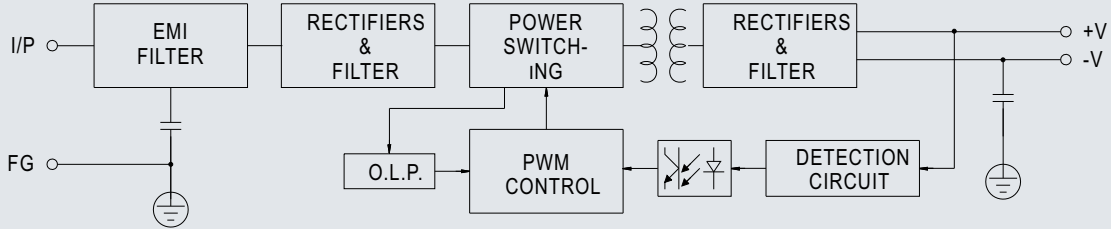
6 The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

# RS-25 Series

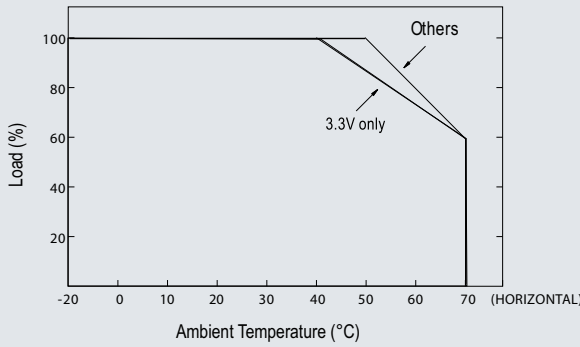
25W Single Output Switching Power Supplies



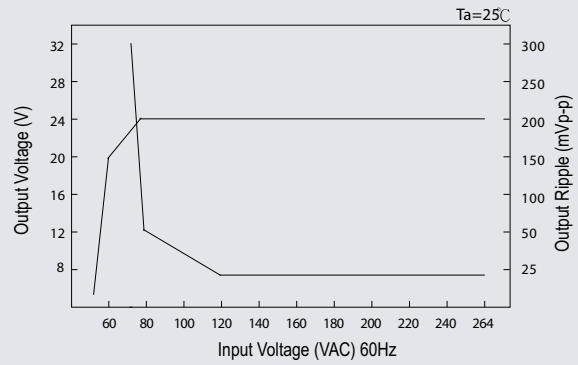
## Block Diagram



## De-Rating Curve



## Static Characteristics (24V)



## Dimensions

Terminal Pin. No Assignment:

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

