

35W Dual Output Switching Power Supply

RD-35 series



Features :

- Universal AC input / Full range
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- * All using 105 $^\circ\!\!\mathbb{C}$ long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to $70^\circ\!\mathrm{C}$
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty

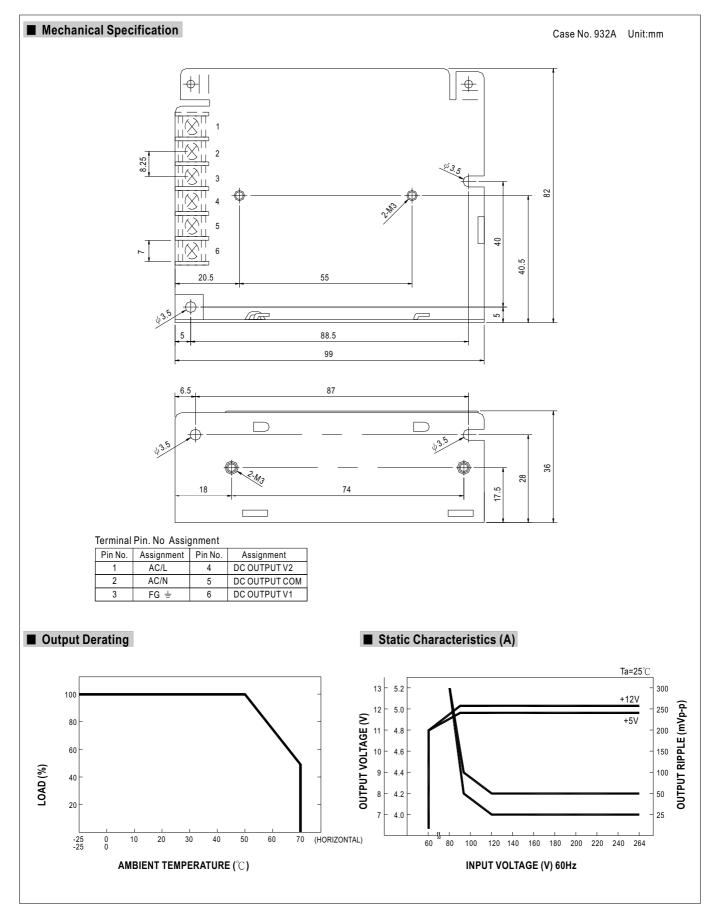


SPECIFICATION

MODEL		RD-35A		RD-35B		RD-3513	RD-3513		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	CH1	CH2		
OUTPUT	DC VOLTAGE	5V	12V	5V	24V	13.5V	-13.5V		
	RATED CURRENT	4A	1A	2.2A	1A	1.3A	1.3A		
	CURRENT RANGE	0.3~4A	0.2 ~ 1A	0.3~4A	0.2~1.3A	0.3~2A	0.2~1.5A		
	RATED POWER	32W	-	35W	-	35.1W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V	1	CH1: 4.75 ~ 5.5V		CH1: 11.5 ~ 15.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±2.0%	±5.0%	±4.0%	±4.0%		
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±1.0%	±0.5%	±0.5%		
	LOAD REGULATION Note.5	±0.5%	±3.0%	±0.5%	±2.0%	±3.0%	±3.0%		
	SETUP, RISE TIME	500ms, 30ms/230VAC 1200ms, 30ms/115VAC at full load							
	HOLD TIME (Typ.)	80ms/230VAC 16ms/115VAC at full load							
	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)							
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	79%		82%		80%			
INPUT	AC CURRENT (Typ.)	0.8A/115VAC 0.55A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 36A/230VAC							
	LEAKAGE CURRENT	<2mA/240VAC							
		110 ~ 150% rated output power							
PROTECTION	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed							
		CH1: 5.75 ~ 6.75V CH1: 16.87 ~ 19.57V							
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)							
		20 ~ 90% RH non-condensing							
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C) on CH1 output							
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL60950, TUV EN60950 Approved							
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC							
EMC									
(Note 6)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3							
	EMS IMMUNITY	Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A							
OTHERS	MTBF	179Khrs min. MIL-HDBK-217F (25° C)							
	DIMENSION	99*82*36mm (L*W*H)							
	PACKING	0.3Kg; 45pcs/14Kg/0.83CUFT							
NOTE	All parameters NOT specia Airpple & noise are measure Tolerance : includes set up Line regulation is measure 5. Load regulation is measure	Ily mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. J from low line to high line at rated load. d from 0% to 100% rated load. lered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets							



RD-35 series





50W Dual Output Switching Power Supply

RD-50 series



Features :

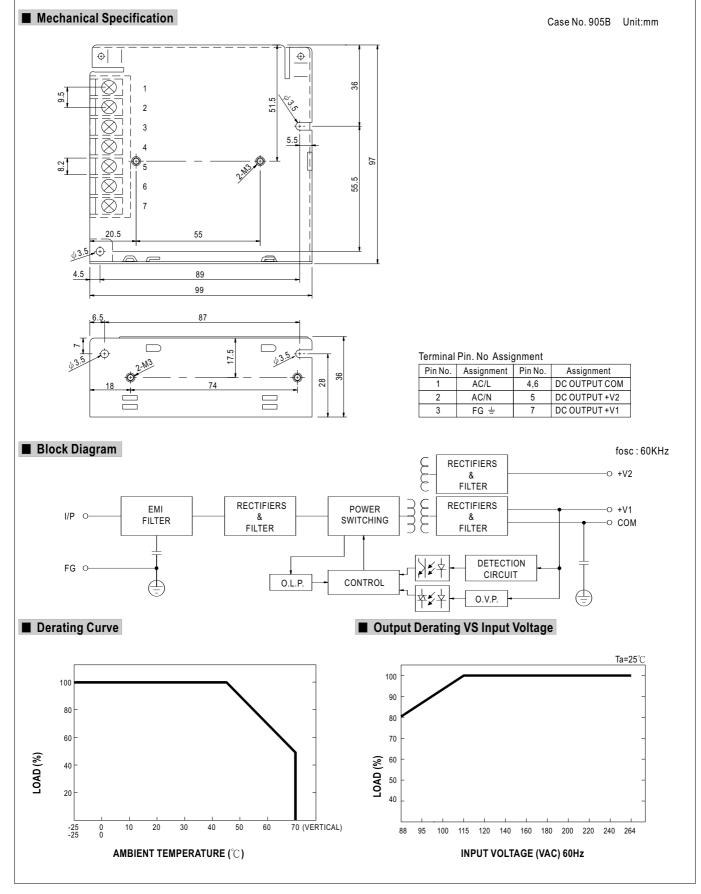
- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- * All using 105 $^\circ\!\!\mathbb{C}$ long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to $70^\circ\!\mathrm{C}$
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



SPECIFICATION

MODEL		RD-50A		RD-50B				
	OUTPUT NUMBER	CH1	CH2	CH1	CH2			
OUTPUT	DC VOLTAGE	5V	12V	5V	24V			
	RATED CURRENT	6A	2A	4A	1.4A			
	CURRENT RANGE	0.3~6A	0.3 ~ 3A	0.3 ~ 6A	0.2 ~ 2A			
	RATED POWER	54W		53.6W				
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	150mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V				
	VOLTAGE TOLERANCE Note.3	±2.0%	±7.0%	±2.0%	-4,+8%			
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±1.5%			
	LOAD REGULATION Note.5	±0.5%	±3.0%	±0.5%	±3.0%			
	SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load						
	HOLD UP TIME (Typ.)	60ms/230VAC 12ms/115VAC at full load						
	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)						
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	EFFICIENCY(Typ.)	79%		80%				
	AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 33A/230VAC						
	LEAKAGE CURRENT	<2mA / 240VAC						
PROTECTION		110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	OVERLOAD							
		CH1: 5.75 ~ 6.75V						
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)						
		20 ~ 90% RH non-condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)on +5V output						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH						
MC	EMI CONDUCTION & RADIATION							
Note 6)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2), heavy industry level, criteria A						
OTHERS	MTBF	172.6Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	99*97*36mm (L*W*H)						
	PACKING	0.41Kg; 45pcs/19.5Kg/0.9CUFT						
NOTE	 Ripple & noise are measure Tolerance : includes set up Line regulation is measure Load regulation is measure 	ally mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. d from low line to high line at rated load. ed from 0% to 100% rated load. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets						





RD-50 series



65W Dual Output Switching Power Supply

RD-65 series



Features :

- Universal AC input / Full range
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- * All using 105 $^\circ\!\!\mathbb{C}$ long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to $70^\circ\!\mathrm{C}$
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



SPECIFICATION

MODEL		RD-65A		RD-65B				
	OUTPUT NUMBER	CH1	CH2	CH1	CH2			
OUTPUT	DC VOLTAGE	5V	12V	5V	24V			
	RATED CURRENT	6A	3A	4A	2A			
	CURRENT RANGE Note.6	0.3~8A	0.2~4A	0.3 ~ 8A	0.2 ~ 3A			
	RATED POWER Note.6	66W		68W				
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	150mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V	·	CH1: 4.75 ~ 5.5V	· ·			
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±2.0%	+4,-6%			
	LINE REGULATION Note.4	±0.5%	±1.5%	±0.5%	±2.0%			
	LOAD REGULATION Note.5	±0.5%	±3.0%	±0.5%	±4.0%			
	SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load						
	HOLD TIME (Typ.)	60ms/230VAC 14ms/115VAC at full load						
INPUT	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)						
	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY(Typ.)	79%		78%				
	AC CURRENT (Typ.)	2A/115VAC 1.2A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC						
	LEAKAGE CURRENT	<2mA / 240VAC						
		110 ~ 150% rated output power						
DOTECTION	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
PROTECTION		CH1: 5.75 ~ 6.75V						
	OVER VOLTAGE	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)on +5V output						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
ЕМС	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B						
(Note 7)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A						
	MTBF	265.9Khrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	129*98*38mm (L*W*H)						
	PACKING	0.44Kg; 30pcs/14.2Kg/0.72CUFT						
NOTE	 Ripple & noise are measure Tolerance : includes set up Line regulation is measure Load regulation is measure Each output can work within 	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. leasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation. asured from low line to high line at rated load. easured from 20% to 100% rated load, and other output at 60% rated load. k within current range. But total output power can't exceed rated output power. considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets						



RD-65 series

