

■ 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 high reliability
- 3 years warranty









User's Manual

SPECIFICATION

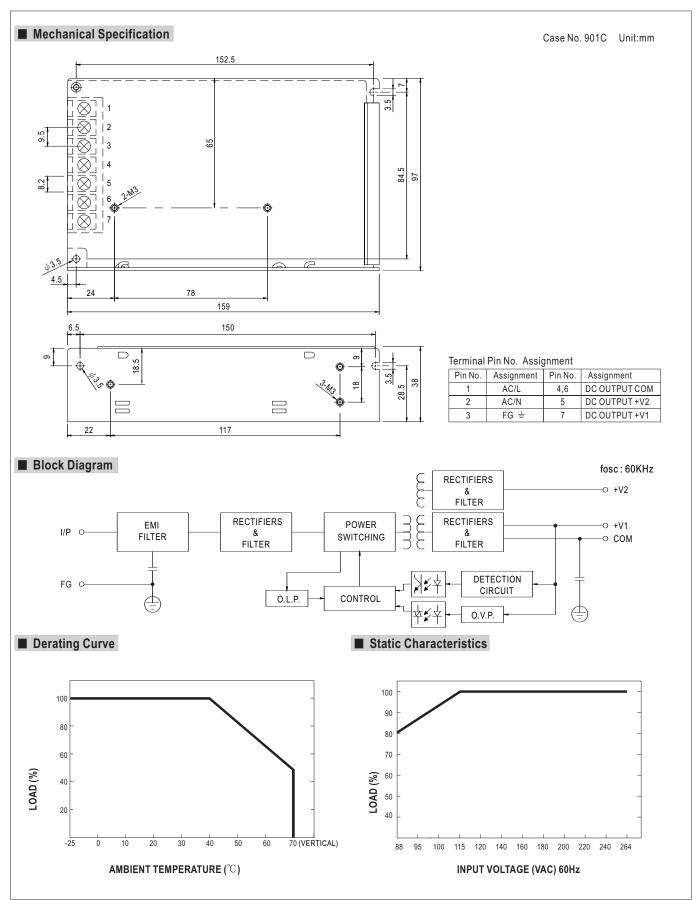
OUTPUT NUMBER	MODEL		RD-85A		RD-85B	
Nate Current Range	ОИТРИТ	OUTPUT NUMBER	CH1	CH2	CH1	CH2
CURRENT RANGE		DC VOLTAGE	5V	12V	5V	24V
NATED POWER Note, 6 88W 88W 88W 120mVp-p		RATED CURRENT	8A	4A	8A	2A
OUTPUT RIPPLE & NOISE (max.) Note. 2 80mVp-p 120mVp-p 80mVp-p 120mVp-p VOLTAGE TOLERANCE Note. 3 ±2.0% ±5.0% ±5.0% ±5.0% ±5.0% LINE GEOULATION Note. 5 ±1.0% ±5.0% ±0.5% ±1.0% LOAD REGULATION Note. 5 ±1.0% ±3.0% ±1.0% ±3.0% SETUP, RISE TIME HOLD UP TIME (Typ.) 100ms/230VAC 120ms, 30ms/115VAC at full load ±1.0% ±3.0% VOLTAGE RANGE 88 - 264VAC 125 - 373VDC (Withstand 300VAC surge for 5sec. Without damage) FREQUENCY RANGE 47 - 63Hz 47 - 63Hz 80% FREQUENCY RANGE 47 - 63Hz 2.5A/115VAC 1.5A/230VAC 80% INVERTING FREQUENCY (Typ.) 78% 80% AC CURRENT (Typ.) 2.5A/115VAC 1.5A/230VAC 80% INVERTING HOLD START 50A/230VAC 10 - 150% rated output power 20m1/240VAC OVERLOAD 10 - 150% rated output power 20m1/240VAC 25 - 375V 20m1/240VAC 25 - 375V 20m1/240VAC 25 - 375V 20m1/240VAC <th>CURRENT RANGE Note.3</th> <th>0 ~ 10A</th> <th>0 ~ 5A</th> <th>0 ~ 10A</th> <th>0 ~ 2.5A</th>		CURRENT RANGE Note.3	0 ~ 10A	0 ~ 5A	0 ~ 10A	0 ~ 2.5A
VOLTAGE ADJ. RANGE		RATED POWER Note.6	88W		88W	
VOLTAGE FOLERANCE Note3		RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	120mVp-p
LINE REGULATION Note.4 ±0.5% ±1.0% ±0.5% ±1.0% ±3.0% ±1.0% ±3.0% ±		VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V		CH1: 4.75 ~ 5.5V	
LOAD REGULATION Note.5 ±1.0% ±3.0% ±1.0% ±3.0% ±		VOLTAGE TOLERANCE Note.3	±2.0%	±5.0%	±2.0%	±5.0%
SETUP, RISE TIME 500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load		LINE REGULATION Note.4	±0.5%	±1.0%	±0.5%	±1.0%
HOLD UP TIME (Typ.) 100ms/230VAC 18ms/115VAC at full load		LOAD REGULATION Note.5	±1.0%	±3.0%	±1.0%	±3.0%
NO TAGE RANGE 88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)		SETUP, RISE TIME	500ms, 20ms/230VAC 1200ms, 30ms/115VAC at full load			
FREQUENCY RANGE 47 ~ 63Hz 80% 80% AC CURRENT (Typ.) 78% 80% 80% AC CURRENT (Typ.) 2.5A/115VAC 1.5A/230VAC		HOLD UP TIME (Typ.)	100ms/230VAC 18ms/115VAC at full load			
RPOTECTION FIFC FICIENCY (Typ.) 78% 80% 80% REMINISTRANCE (Typ.) 2.5A/115VAC 1.5A/230VAC RRUSH CURRENT (Typ.) COLD START 50A/230VAC COLD START 50A/230	INPUT	VOLTAGE RANGE	88 ~ 264VAC 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)			
AC CURRENT (Typ.) 2.5A/115VAC 1.5A/230VAC INRUSH CURRENT (Typ.) COLD START 50A/230VAC LEAKAGE CURRENT < 2mA / 240VAC		FREQUENCY RANGE	47 ~ 63Hz			
AC CURRENT (Typ.) 2.5A/115VAC 1.5A/230VAC INRUSH CURRENT (Typ.) COLD START 50A/230VAC LEAKAGE CURRENT <2mA / 240VAC		EFFICIENCY(Typ.)	78%		80%	
LEAKAGE CURRENT <2mA / 240VAC		AC CURRENT (Typ.)	2.5A/115VAC 1.5A/230VAC			
PROTECTION 110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed CH1: 5.75 ~ 6.75V 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) on +5V output VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY 8. EMC (Note 7) 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 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		INRUSH CURRENT (Typ.)	COLD START 50A/230VAC			
PROTECTION OVER VOLTAGE CH1: 5.75 ~ 6.75V Protection type : Hiccup mode, recovers automatically after fault condition is removed CH3: 5.75 ~ 6.75V 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 VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY 8 EMC 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 05°C) MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)		LEAKAGE CURRENT	<2mA / 240VAC			
PROTECTION OVER VOLTAGE CH1: 5.75 ~ 6.75V 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 -40 ~ +85°C, 10 ~ 95% RH TEMP. COEFFICIENT -40 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY & SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE MITHSTAND 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 MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)	PROTECTION					
CH1: 5.75 ~ 6.75V 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) on +5V output VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, 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 MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)		OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
WORKING TEMP.		OVER VOLTAGE				
WORKING HUMIDITY 20 ~ 90% RH non-condensing			Protection type: Hiccup mode, recovers automatically after fault condition is removed			
ENVIRONMENT 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		WORKING TEMP.	()			
TEMP. COEFFICIENT	ENVIRONMENT	WORKING HUMIDITY	•			
VIBRATION 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes SAFETY STANDARDS UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC EMC (Note 7) 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 MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)		STORAGE TEMP., HUMIDITY	· · · · · · · · · · · · · · · · · · ·			
SAFETY STANDARDS		TEMP. COEFFICIENT	, , ,			
SAFETY & EMC (Note 7) WITHSTAND VOLTAGE I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC EMC (Note 7) 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 MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)		VIBRATION	• •			
ISOLATION RESISTANCE		SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved			
(Note 7) 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 MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)	SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
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 TO MTBF MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)		ISOLATION RESISTANCE	· · ·			
MTBF 239.4Khrs min. MIL-HDBK-217F (25°C)	(Note 7)	EMC EMISSION				
200.114110 111111. 11112 112517 (2007)		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 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy industry level, criteria A, EAC TP TC 020 (BS EN/EN50082-2), heavy indust			
OTHERS DIMENSION 159*97*38mm (L*W*H)	l .	MTBF	239.4Khrs min. MIL-HDBK-217F (25°C)			
		DIMENSION	\			
PACKING 0.6Kg; 24pcs/15.4Kg/0.83CUFT		PACKING	0.6Kg; 24pcs/15.4Kg/0.83CUFT			

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. (In order to meet tolerance, it is recommended that CH1 load > 10% rated current.)
- 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. 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)
 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.
- 9. 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).
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx





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