



85W Triple Output Switching Power Supply

RT-85 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°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



BS EN/EN62368-1



IEC62368-1



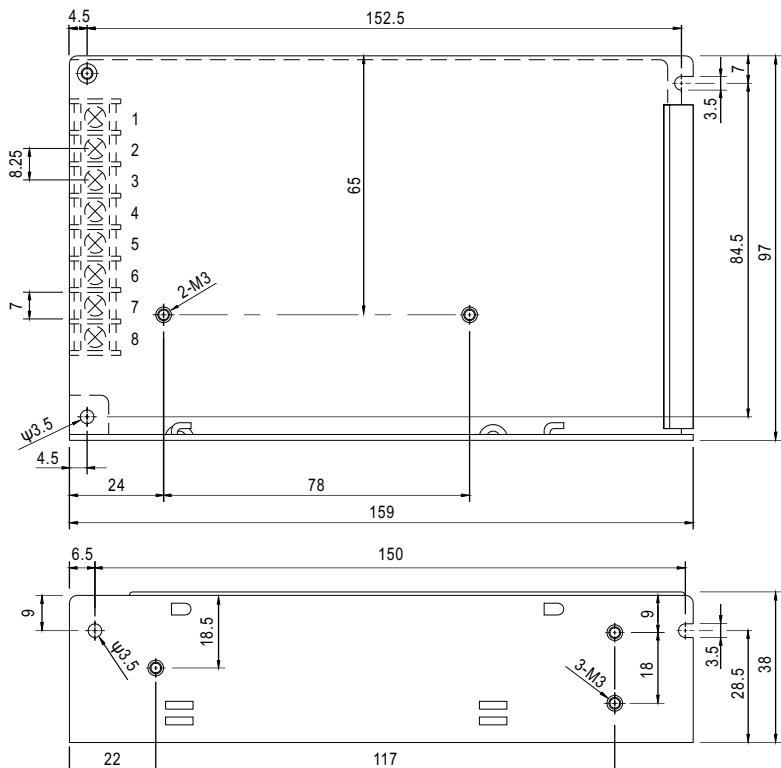
TPTC004

SPECIFICATION

MODEL	RT-85A			RT-85B			RT-85C			RT-85D							
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3				
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	12V				
	RATED CURRENT	8A	3.5A	0.5A	8A	3.5A	0.5A	7A	3A	0.5A	6A	2A	1A				
	CURRENT RANGE	Note.3	0 ~ 10A	0 ~ 4A	0 ~ 1A	0 ~ 10A	0 ~ 4A	0 ~ 1A	0 ~ 10A	0 ~ 4A	0 ~ 1A	0 ~ 10A	0 ~ 2.5A	0 ~ 1A			
	RATED POWER	Note.6	84.5W			88W			87.5W			90W					
	RIPPLE & NOISE (max.)	Note.2	80mVp-p	120mVp-p	100mVp-p	80mVp-p	120mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	80mVp-p	150mVp-p	120mVp-p			
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V			CH1: 4.75 ~ 5.5V						
	VOLTAGE TOLERANCE	Note.3	±2.0%	±5.0%	±6.0%	±2.0%	±5.0%	±6.0%	±2.0%	+3,-7%	±6.0%	±2.0%	±5.0%	±6.0%			
	LINE REGULATION	Note.4	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%			
	LOAD REGULATION	Note.5	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%			
INPUT	SETUP, RISE TIME	500ms, 20ms/230VAC			1200ms, 30ms/115VAC at full load												
	HOLD UP TIME (Typ.)	100ms/230VAC			18ms/115VAC at full load												
	VOLTAGE RANGE	88 ~ 264VAC			125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)												
	FREQUENCY RANGE	47 ~ 63Hz															
	EFFICIENCY (Typ.)	76%		76%		77%		79%									
	AC CURRENT (Typ.)	2.5A/115VAC		1.5A/230VAC													
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 50A/230VAC															
	LEAKAGE CURRENT	<2mA / 240VAC															
	OVERLOAD	110 ~ 150% rated output power			Protection type : Hiccup mode, recovers automatically after fault condition is removed												
ENVIRONMENT	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")															
SAFETY & EMC (Note 7)	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															
OTHERS	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved															
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2.0KVAC 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															
NOTE	MTBF	215Khrs min. MIL-HDBK-217F (25°C)															
	DIMENSION	159*97*38mm (L*W*H)															
	PACKING	0.6Kg; 24pcs/15.4Kg/0.83CUFT															
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 > 20% rated current for A, B type and CH1 load > 10% rated current for C,D type.) 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. 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). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx																	

■ Mechanical Specification

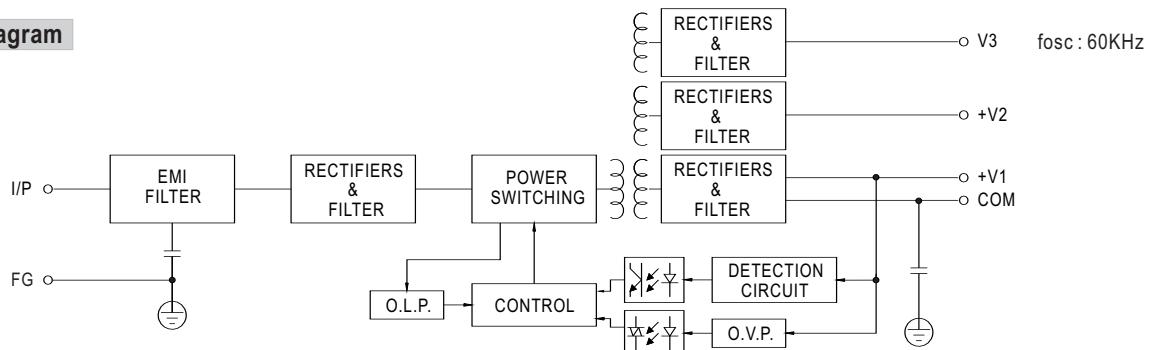
Case No. 901C Unit:mm



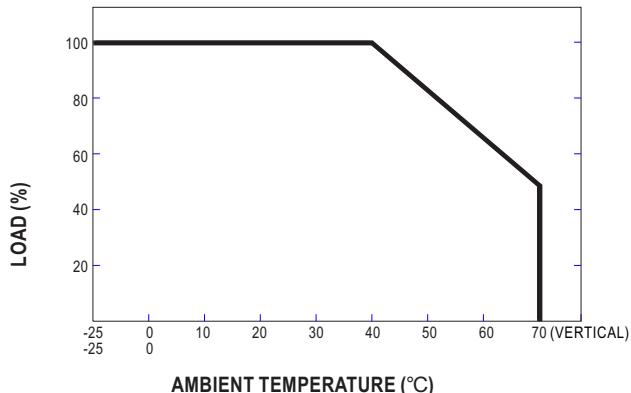
Terminal Pin No. Assignment

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

■ Block Diagram



■ Derating Curve



■ Static Characteristics

