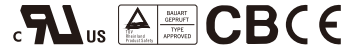


85W Triple Output Switching Power Supply

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



SPECIFICATION

MODEL	RT-85A			RT-85B			RT-85C			RT-85D			
	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
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 <small>Note.6</small>	2 ~ 10A	0.3 ~ 4A	0 ~ 1A	2 ~ 10A	0.3 ~ 4A	0 ~ 1A	2 ~ 10A	0.3 ~ 4A	0 ~ 1A	2 ~ 10A	0.3 ~ 2.5A	0.1 ~ 1A
	RATED POWER <small>Note.6</small>	84.5W			88W			87.5W			90W		
	RIPPLE & NOISE (max.) <small>Note.2</small>	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 <small>Note.3</small>	±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 <small>Note.4</small>	±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 <small>Note.5</small>	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%	±1.0%	±3.0%	±6.0%
SETUP, RISE TIME	500ms, 20ms/230VAC			1200ms, 30ms/115VAC at full load									
HOLD UP TIME (Typ.)	100ms/230VAC			18ms/115VAC at full load									
INPUT	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								
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC											
LEAKAGE CURRENT	<2mA / 240VAC												
PROTECTION	OVERLOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed											
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V Protection type : Hiccup mode, recovers automatically after fault condition is removed											
ENVIRONMENT	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 & EMC <small>(Note 7)</small>	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 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 EN55032 (CISPR32) Class B, EN61000-3-2,-3											
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A												
OTHERS	MTBF	215Khrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	159*97*38mm (L*W*H)											
	PACKING	0.6Kg; 24pcs/15.4Kg/0.7CUFT											
NOTE	<ol style="list-style-type: none"> All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load. Each output can work within current range. But total output power can't exceed rated output power. 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) 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. 												

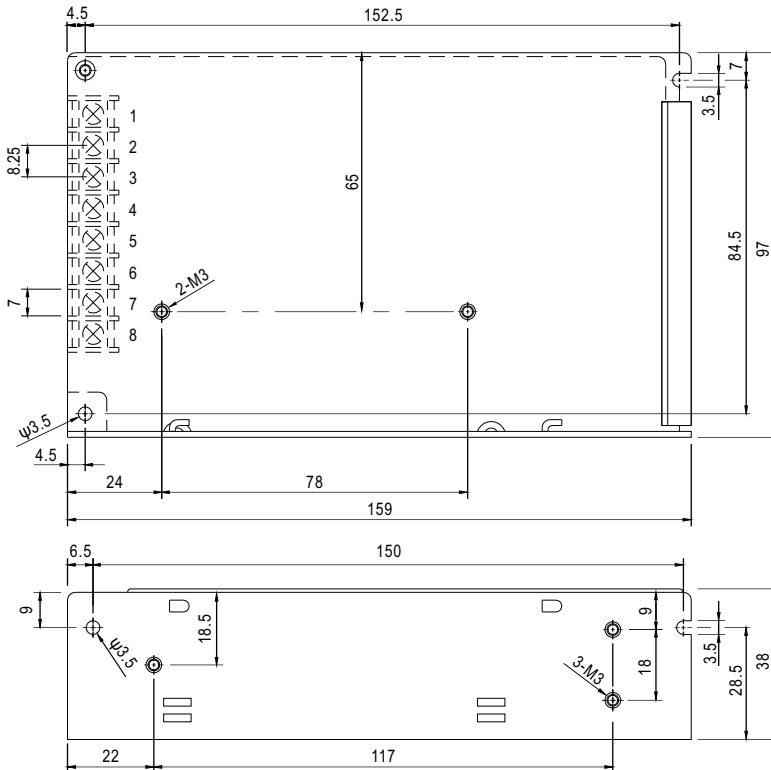
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Note: all features are subject to change without notice.

Mechanical Specification

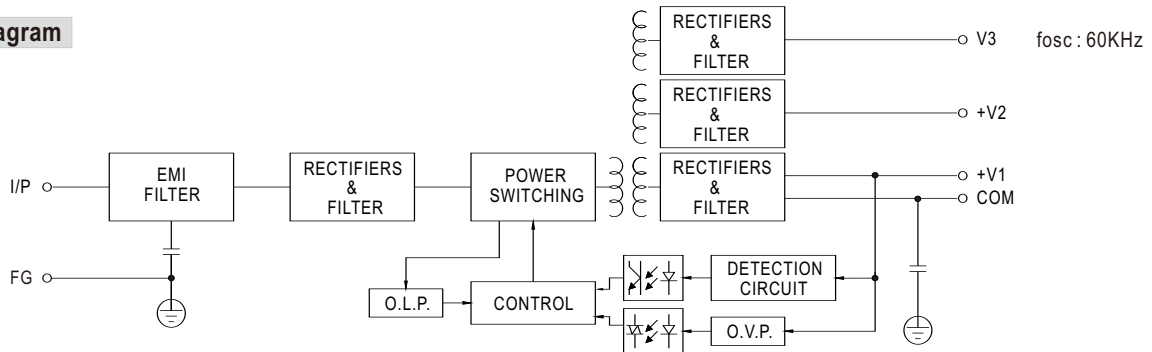
Case No. 901C Unit:mm



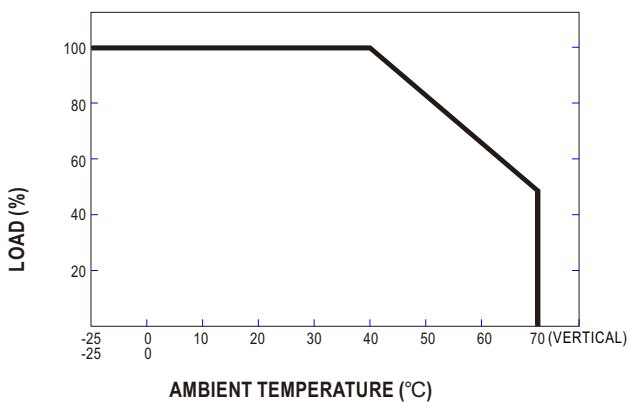
Terminal Pin No. Assignment

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

Block Diagram



Derating Curve



Static Characteristics

