



## ■ Features :

- Universal AC input / Full range
- Low leakage current <100µA
- Protections: Short circuit / Overload / Over voltage
- Free air convection for rated power and 23.5CFM forced air convection for peak load
- Medical safety approved (2 x MOPP between primary to secondary)
- Fixed switching frequency at 65KHz
- 3 years warranty



## SPECIFICATION

MODEL	RPT-75A			RPT-75B			RPT-75C										
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3							
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V							
	RATED CURRENT	6A	3A	0.5A	6A	3A	0.5A	6A	2.3A	0.5A							
	CURRENT RANGE	0.6 ~ 8A	0.2 ~ 4A	0.1 ~ 1A	0.6 ~ 8A	0.2 ~ 4A	0.1 ~ 1A	0.6 ~ 8A	0.1 ~ 3A	0.1 ~ 1A							
	RATED POWER	68.5W			72W			72W									
	PEAK LOAD (23.5CFM)	93W			100W			100W									
	RIPLPE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	80mVp-p	120mVp-p	120mVp-p	80mVp-p	150mVp-p	150mVp-p							
	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5V															
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±5.0%	±2.0%	±6.0%	±5.0%	±2.0%	±8.0%	±5.0%							
	LINE REGULATION	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%							
	LOAD REGULATION	±1.5%	±3.0%	±1.0%	±1.5%	±3.0%	±1.0%	±1.5%	±3.0%	±1.0%							
INPUT	SETUP, RISE TIME	500ms, 30ms/230VAC			500ms, 30ms/115VAC at full load												
	HOLD UP TIME (Typ.)	80ms/230VAC			20ms/115VAC at full load												
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC															
	FREQUENCY RANGE	47 ~ 63Hz															
	EFFICIENCY(Typ.)	76%			77%			77%									
PROTECTION	AC CURRENT (Typ.)	1.5A/115VAC 1A/230VAC															
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 50A/230VAC															
	LEAKAGE CURRENT Note.7	Earth leakage current < 150µA/264VAC , Touch current < 100µA/264VAC															
	OVERLOAD	140 ~ 180% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed															
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V Protection type : Shut down o/p voltage, re-power on to recover															
ENVIRONMENT	WORKING TEMP.	-20 ~ +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 ~ 45°C)															
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes															
SAFETY & EMC (Note 4)	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved															
	ISOLATION LEVEL	Primary-Secondary:2xMOPP, Primary-Earth:1xMOPP															
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC															
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH															
	EMC EMISSION	Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B, EN61000-3-2,-3															
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61000-6-2, EN61204-3, heavy industry level, EN61204-3 medical level, criteria A															
	MTBF	521.2K hrs min. MIL-HDBK-217F (25°C)															
	DIMENSION	127*76.2*31mm (L*W*H)															
NOTE	PACKING	0.26Kg; 63pcs/17.4Kg/1.35CUFT															
	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. 4. 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 <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) 5. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 6. Heat Sink HS1,HS2,HS3 can not be shorted. 7. Touch current was measured from primary input to DC output.																



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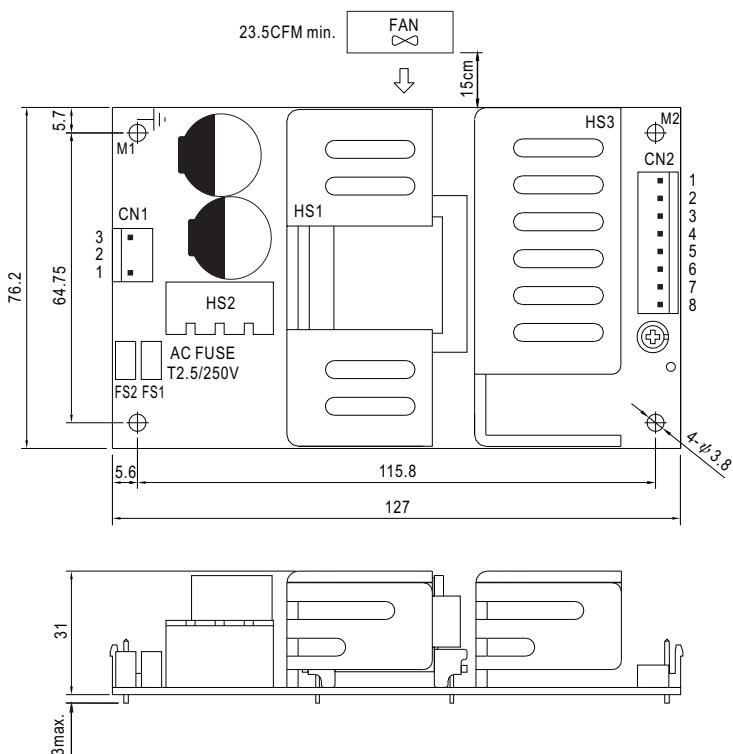
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## SPECIFICATION

MODEL	RPT-75D			RPT-7503		
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2
	DC VOLTAGE	5V	24V	12V	3.3V	5V
	RATED CURRENT	5A	1.5A	1A	6A	6A
	CURRENT RANGE	0.6 ~ 7A	0.1 ~ 2A	0.1 ~ 1A	0.7 ~ 7A	0 ~ 8A
	RATED POWER	73W			61.8W	
	PEAK LOAD (23.5CFM)	95W			81.1W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	200mVp-p	120mVp-p	80mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	CH1:4.75 ~ 5.5V			-----	
	VOLTAGE TOLERANCE Note.3	±2.0%	±8.0%	±8.0%	±4.0%	±6.0%
	LINE REGULATION	±0.5%	±1.0%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±1.5%	±3.0%	±3.0%	+3,-4%	+5,-4%
INPUT	SETUP, RISE TIME	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load				
	HOLD UP TIME (Typ.)	80ms/230VAC 20ms/115VAC at full load				
PROTECTION	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY(Typ.)	79%			74%	
	AC CURRENT (Typ.)	1.5A/115VAC 1A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 50A/230VAC				
	LEAKAGE CURRENT Note.7	Earth leakage current < 150µA/264VAC , Touch current < 100µA/264VAC				
ENVIRONMENT	OVERLOAD	140 ~ 180% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
SAFETY & EMC (Note 4)	OVER VOLTAGE	CH1: 5.75 ~ 6.75V			CH1: 3.8 ~ 4.45V	
		Protection type : Shut down o/p voltage, re-power on to recover				
OTHERS	WORKING TEMP.	-20 ~ +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 ~ 45°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
NOTE	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1, IEC60601-1 approved				
	ISOLATION LEVEL	Primary-Secondary:2xMOPP, Primary-Earth:1xMOPP				
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
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## ■ Mechanical Specification

Unit:mm



AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/L		

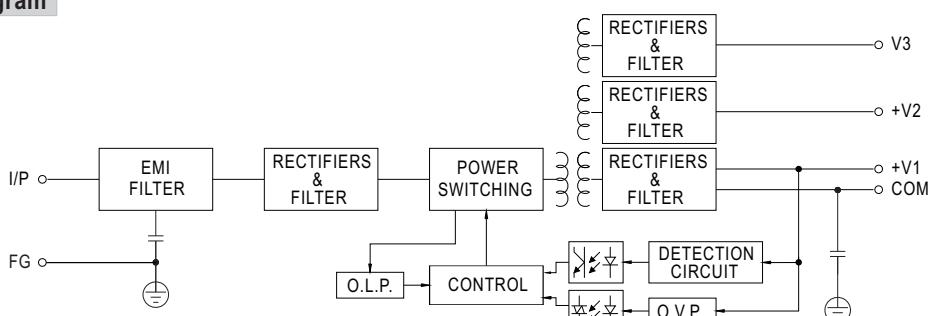
DC Output Connector (CN2) : JST B8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	V1	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3,4,5	COM		
6,7	V2		
8	V3		

 $\equiv$  : Grounding Required

! 1.HS1,HS2,HS3 cannot be shorted.  
 2.M1 is safety ground. For better EMC performance,Please secure an electrical connection between M1,M2 and chassis grounding.

## ■ Block Diagram



fosc : 65KHz

## ■ Output Derating VS Input Voltage

