

## 60W Triple Output Medical Type

# RPT-60 series



#### Features :

- 4"x2" miniature size
- Universal AC input/Full range
- Low leakage current<200uA
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- Fixed switch frequency at 100KHz
- 3 years warranty



### SPECIFICATION

MODEL		RPT-60A			RPT-60B			RPT-60C			
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
ουτρυτ	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	
	RATED CURRENT	4A	2A	0.5A	4A	2A	0.5A	4A	1.5A	0.5A	
	CURRENT RANGE	0.5~4.4A	0.1~2.2A	0.1~0.55A	0.5~4.4A	0.1 ~ 2.2A	0.1~0.55A	0.5~4.4A	0.1~1.65A	0.1~0.554	
	RATED POWER	46.5W		50W		50W					
	PEAK LOAD(10sec.) Note.4	51.15W			55W			55W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	80mVp-p	100mVp-p	150mVp-p	
	VOLTAGE TOLERANCE Note.3	+3,-2%	±6.0%	+9,-8%	+3,-2%	±6.0%	+6,-10%	+3,-2%	±6.0%	±8.0%	
	LINE REGULATION	±0.5%	±1.0%	±1.0%	±0.5%	±1.0%	±2.0%	±0.5%	±2.0%	±2.0%	
	LOAD REGULATION	±1.5%	±2.0%	+5,-7%	±1.5%	±2.0%	±5.0%	±1.5%	±3.0%	±4.0%	
	SETUP, RISE TIME	200ms, 15ms/230VAC 200ms, 15ms/115VAC at full load									
	HOLD TIME (Typ.)	70ms/230VAC 15ms/115VAC at full load									
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	EFFICIENCY (Typ.)	77%									
	AC CURRENT (Typ.)	1.1A/115VAC 0.7A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 60A/230VAC 30A/115VAC									
	LEAKAGE CURRENT	For earth <200uA/264VAC, For patient <100uA/264VAC									
PROTECTION		115 ~ 150% rated output power									
	OVER LOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed									
		CH1: 5.75 ~ 6.75V									
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover									
	WORKING TEMP.	-20 ~ +65 $^{\circ}$ C (Refer to output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	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 STANDARDS	UL60601-1, TUV EN60601-1 Approved									
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:1.5KVAC O/P-FG:1.5KVAC									
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC									
EMC	<b>EMI CONDUCTION &amp; RADIATION</b>	UCTION & RADIATION Compliance to EN55011(CISPR11),EN55022 (CISPR22) Class B									
(Note 5)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN60601-1-2, EN61204-3 Medical level, criteria A									
OTHERS	MTBF	677.8Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	101.6*50.8*29mm (L*W*H)									
	PACKING	0.15Kg; 96pcs/15.4Kg/0.89CUFT									
NOTE	<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>33% Duty cycle maximum</li> <li>The power supply is consided EMC directives.</li> </ol>	Illy 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. within every 30 seconds. Average output power should not exceed the rated power. lered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets easured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.									



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#### Features :

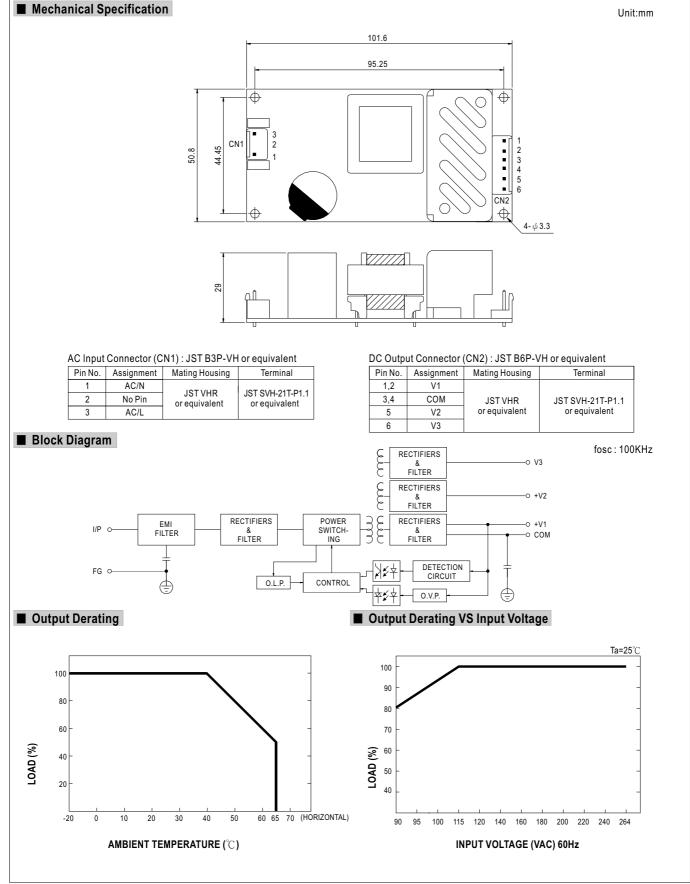
- 4"x2" miniature size
- Universal AC input/Full range
- Low leakage current<200uA
- Protections:Short circuit/Over load/Over voltage
- Cooling by free air convection
- UL60601-1/IEC60601-1/EN60601-1 medical safety approved
- Fixed switch frequency at 100KHz
- 3 years warranty



### SPECIFICATION

MODEL		RPT-60D			RPT-6003						
	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3				
OUTPUT	DC VOLTAGE	5V	24V	12V	3.3V	5V	12V				
	RATED CURRENT	3.5A	1A	0.5A	5A	3A	0.7A				
	CURRENT RANGE	0.5 ~ 3.85A	0.1 ~ 1.1A	0.1 ~ 0.55A	0.5 ~ 5.5A	0.3 ~ 3.3A	0.1 ~ 0.77A				
	RATED POWER	47.5W	1		39.9W						
	PEAK LOAD(10sec.) Note.4	52.25W			43.9W						
	RIPPLE & NOISE (max.) Note.2	80mVp-p	150mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p				
	VOLTAGE TOLERANCE Note.3	+3,-2%	±6.0%	±8.0%	+3,-2%	±8.0%	±8.0%				
	LINE REGULATION	±0.5%	±2.0%	±2.0%	±0.5%	±1.0%	±2.0%				
	LOAD REGULATION	±1.5%	±3.0%	±4.0%	±1.5%	±2.0%	+5.5,-5%				
	SETUP, RISE TIME	200ms, 15ms/230VAC 200ms, 15ms/115VAC at full load									
	HOLD TIME (Typ.)	70ms/230VAC 15ms/115VAC at full load									
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	79% 75%									
	AC CURRENT (Typ.)	1.1A/115VAC 0.7A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 60A/230VAC 30A/115VAC									
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		CH1: 5.75 ~ 6.75V CH1: 3.8 ~ 4.45V									
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