

160W Triple Output Medical Type

RPT-160 series





5. HS1,HS2 & HS3 can not be shorted.

7. The rated power includes 5Vsb @ 0.6A.

8. The rated power includes 5Vsb @ 0.8A.

6. Derating may be needed under low input voltages. Please check the derating curve for more details.

Features:

- Universal AC input / Full range
- · Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 5"x3" compact size
- Free air convection for 100W and 145W with 20.5 CFM forced air
- · With power good and fail signal output
- No load power consumption under 0.75W by PS-ON control (G model)
- Standby 5V@0.8A with fan, @0.6A without fan (G model)
- 3 years warranty

G: With 5Vsb & no load power consumption < 0.75 W

Blank: Basic function (without 5Vsb)

RPT **G** - 160A

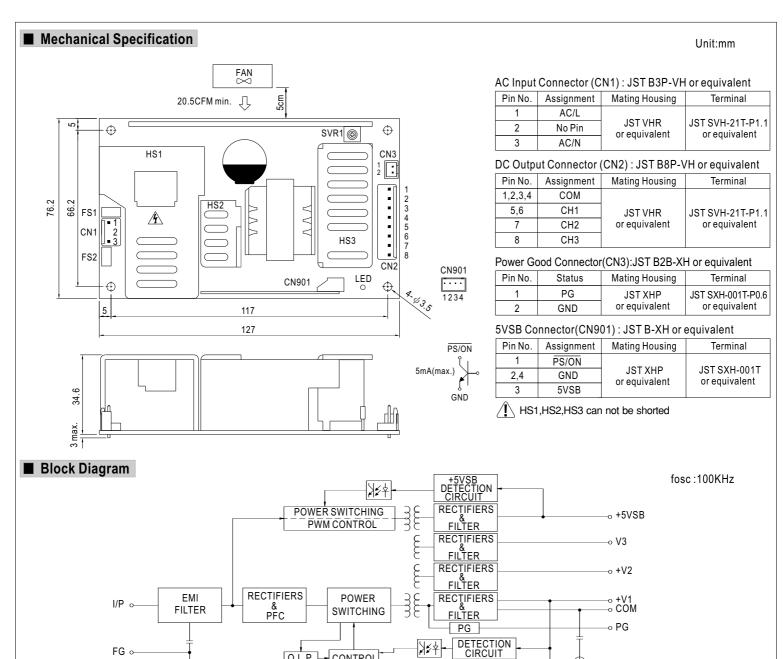


MODEL		RPT□-16	ΛΔ		RPT□-160B			RPT160C			RPT -160D			
WIODEL	OUTDUT NUMBER			OLIO			OLIO			0110			OUO	
ОИТРИТ	OUTPUT NUMBER	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	
	DC VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	12V	24V	
	, ,	14A	5.5A	1A	14A	5A	1A	14A	3.6A	1A	11A	5A	1.2A	
	CURRENT RANGE (convection)			0.1 ~ 0.6A			0.1 ~ 0.8A		0.1 ~ 2.6A			0.2 ~ 2.6A		
	CURRENT RANGE (20.5CFM)		0.2 ~ 5.5A	0.1 ~ 1A	0.6 ~ 14A	0.2 ~ 5A	0.1 ~ 1A		0.1 ~ 3.6A	0.1 ~ 1A	0.3 ~ 11A	0.2 ~ 5A	0.15 ~ 1.2	
	RATED POWER (convection) Note.7				98.4W			99W			98.2W			
	RATED POWER (20.5CFM) Note.8				146W			143W			147.8W			
	. ,				100mVp-p			100mVp-p 150mVp-p 150mVp		150mVp-p	100mVp-p 120mVp-p 200m		200mVp	
	VOLTAGE ADJ. RANGE	CH1:5 ~ 5		<u> </u>		1				ı		ı		
	VOLTAGE TOLERANCE Note.3	±2.0%	±5.0%	-5,+7%	±2.0%	±5.0%	-4,+5%	±2.0%	±4.0%	±8.0%	±2.0%	±5.0%	+7,-5%	
	LINE REGULATION	±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	±1.5%	±3.0%	-5,+6%	±1.5%	±3.0%	-4,+5%	±2.0%	±3.0%	±8.0%	±1.5%	±3.0%	-3,+4%	
	SETUP, RISE TIME	1800ms, 30ms/230VAC 3500ms, 30ms/115VAC at full load												
	HOLD UP TIME (Typ.)	16ms/230	16ms/230VAC/115VAC at full load											
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC 127 ~ 370VDC												
	FREQUENCY RANGE	47 ~ 63Hz												
	POWER FACTOR (Typ.)	PF>0.93/230VAC PF>0.98/115VAC at full load												
	EFFICIENCY (Typ.)	84%	84% 84% 83% 83%											
	AC CURRENT (Typ.)	1.8A/115VAC 0.9A/230VAC												
	INRUSH CURRENT (Typ.)	COLD ST	COLD START 35A/115VAC 70A/230VAC											
	LEAKAGE CURRENT	Earth lea	Earth leakage current <300uA / 264VAC, Patient leakage current <100uA/264VAC											
PROTECTION	OVERLOAD	105 ~ 135% 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												
		105°C (TSW1)detect on heatsink of power transistor												
	OVER TEMPERATURE	90°C (TSW2) detect on heatsink of power transistor												
		Protection type: (TSW1)Shut down o/p voltage, recovers automatically after temperature goes down												
		Protection type: (TSW2)Shut down o/p voltage, recovers automatically after temperature goes down Protection type: (TSW2)Shut down o/p voltage, re-power on to recover												
FUNCTION	5V STANDBY (G model)		5VSB: 5V@0.6A without fan, 0.8A with fan 20.5CFM; tolerance ± 2%, ripple: 50mVp-p(max.)											
	PS-ON INPUT SIGNAL (G model)		Power on: PS-ON = "Hi" or " > 2 ~ 5V"; Power off: PS-ON = "Low" or " < 0 ~ 0.5V"											
	POWER GOOD / POWER FAIL			PF>1ms		wor on. r o	OIV - LOW	01 10 1	J. J V					
ENVIRONMENT	WORKING TEMP. WORKING HUMIDITY	-20 ~ +70°C (Refer to "Derating Curve")												
		20 ~ 90% RH non-condensing												
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH												
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)												
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes												
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60601-1, TUV EN60601-1 approved												
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:1.5KVAC 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 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, EN61204-3, medical level, criteria A												
	MTBF	191.4Khrs min. MIL-HDBK-217F (25°C)												
	DIMENSION		127*76.2*34.6mm (L*W*H)											
	PACKING	0.33Kg; 36pcs/12.9Kg/0.79CUFT												
NOTE	 Ripple & noise are measure Tolerance : includes set up The power supply is consid 													



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■ Derating Curve

FG o

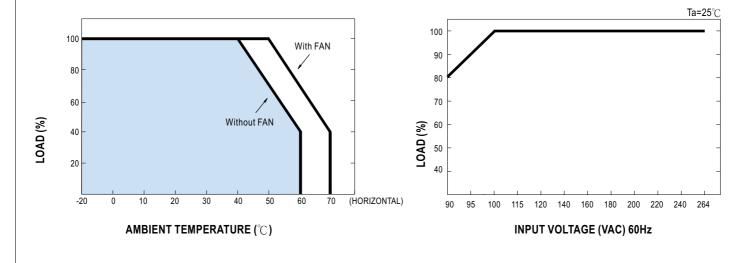
Output Derating VS Input Voltage

∘ PS/ON

PS/ON CONTROL

O.V.P.

当を本



O.L.P.

CONTROL