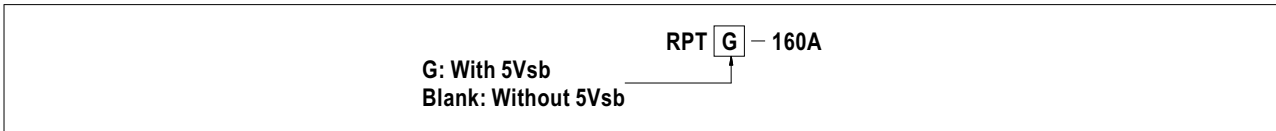


■ Features :

- 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 (Optional)
- Standby 5V@0.8A with Fan/0.6A without Fan (Optional)
- 3 years warranty

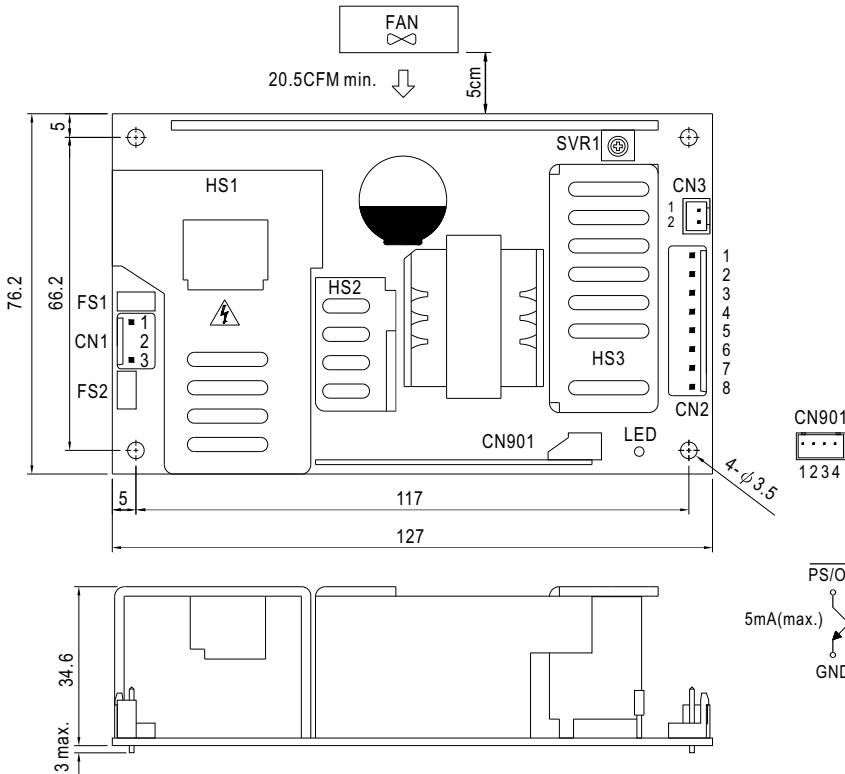


SPECIFICATION

MODEL	RPT□-160A			RPT□-160B			RPT□-160C			RPT□-160D				
OUTPUT	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3		
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		
RATED CURRENT (20.5CFM)	14A	5.5A	1A	14A	5A	1A	14A	3.6A	1A	11A	5A	1.2A		
CURRENT RANGE (convection)	0.6 ~ 9A	0.2 ~ 3.8A	0.1 ~ 1A	0.6 ~ 9A	0.2 ~ 3.4A	0.1 ~ 0.8A	0.6 ~ 9A	0.1 ~ 2.6A	0.1 ~ 0.8A	0.3 ~ 8A	0.2 ~ 2.6A	0.15 ~ 1A		
CURRENT RANGE (20.5CFM)	0.6 ~ 14A	0.2 ~ 5.5A	0.1 ~ 1A	0.6 ~ 14A	0.2 ~ 5A	0.1 ~ 1A	0.6 ~ 14A	0.1 ~ 3.6A	0.1 ~ 1A	0.3 ~ 11A	0.2 ~ 5A	0.15 ~ 1.2A		
RATED POWER (convection) Note.7	98.6W			98.4W			99W			98.2W				
RATED POWER (20.5CFM) Note.8	145W			146W			143W			147.8W				
RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	100mVp-p	120mVp-p	120mVp-p	100mVp-p	150mVp-p	150mVp-p	100mVp-p	120mVp-p	200mVp-p		
VOLTAGE ADJ. RANGE	CH1:5 ~ 5.5V													
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%	±4.0%		
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	1200ms, 30ms/230VAC			2500ms, 30ms/115VAC at full load										
HOLD UP TIME (Typ.)	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%		83%		83%					
	AC CURRENT (Typ.)		1.8A/115VAC		0.9A/230VAC									
	INRUSH CURRENT (Typ.)		COLD START 35A/115VAC		70A/230VAC									
	LEAKAGE CURRENT			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								
	OVER TEMPERATURE		105°C (TSW1) detect on heatsink of power transistor			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, re-power on to recover								
FUNCTION	5V STANDBY		5VSB : 5V@0.6A without Fan, 0.8A with Fan 20.5CFM ; tolerance ± 2%, ripple : 50mVp-p(max.)											
	PS-ON INPUT SIGNAL (OPTIONAL)		Power on: PS-ON = "Hi" or ">2V" ; Power off: PS-ON = "Low" or "<0.5V"											
	POWER GOOD / POWER FAIL		500ms>PG>10ms			PF>1ms								
ENVIRONMENT	WORKING TEMP.		-20 ~ +70°C (Refer to output load 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)											
	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											
	EMI CONDUCTION & RADIATION		Compliance to EN55011 (CISPR11), EN55022 (CISPR22) Class B											
	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		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	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. 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.</li> <li>5. HS1,HS2 &amp; HS3 can not be shorted.</li> <li>6. Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>7. The rated power includes 5Vsb @ 0.6A.</li> <li>8. The rated power includes 5Vsb @ 0.8A.</li> </ol>													

## 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
1,2,3,4	COM	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5,6	CH1		
7	CH2		
8	CH3		

Power Good Connector(CN3):JST B2B-XH or equivalent

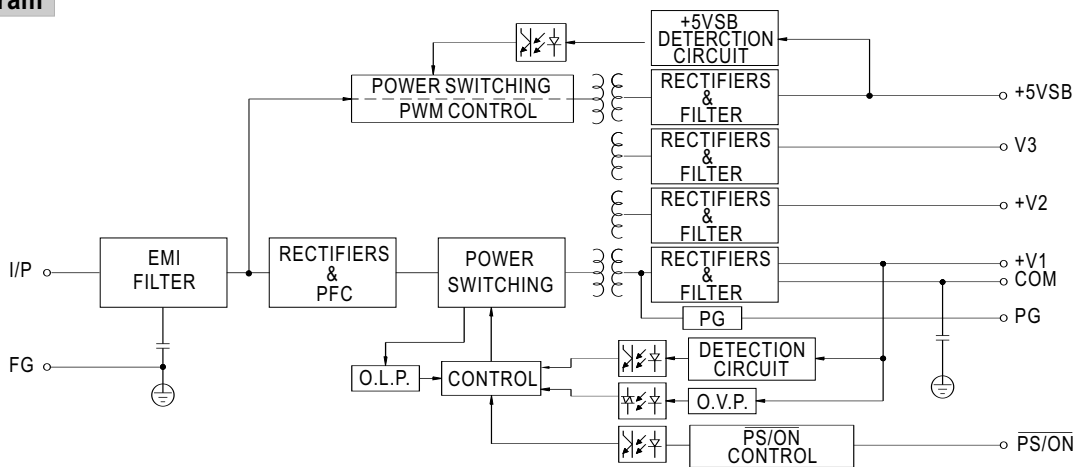
Pin No.	Status	Mating Housing	Terminal
1	PG	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	GND		

5VSB Connector(CN901) : JST B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	PS/ON	JST XHP or equivalent	JST SXH-001T or equivalent
2,4	GND		
3	5VSB		

⚠ HS1,HS2,HS3 can not be shorted

## Block Diagram



## Derating Curve

## Output Derating VS Input Voltage

