



## ■ 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
- Medical safety approved (2 x MOPP between primary to secondary)
- 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)
- Suitable for BF application with appropriate system consideration
- 3 years warranty

G: With 5Vsb & no load power consumption < 0.75 W  
 Blank: Basic function (without 5Vsb)

RPT [G] - 160A

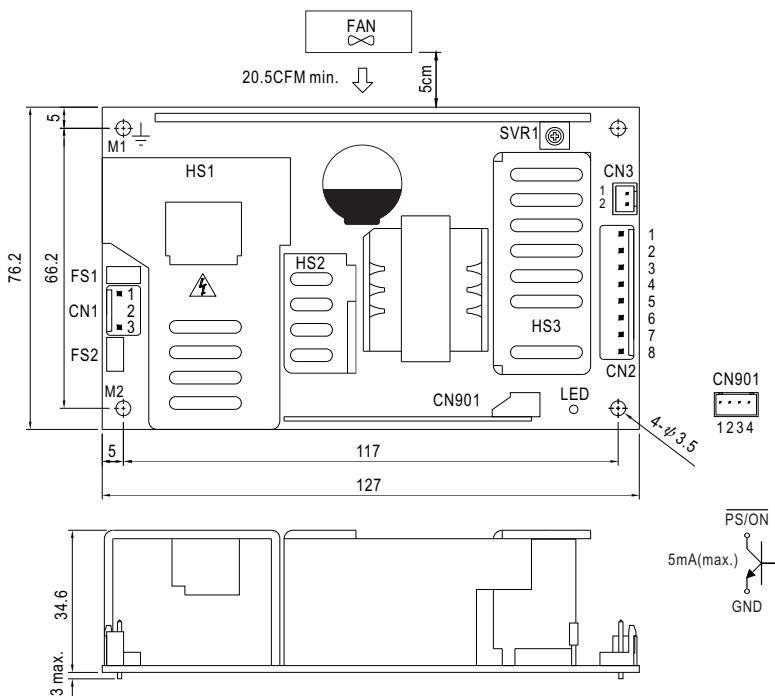


## SPECIFICATION

MODEL	RPT□-160A			RPT□-160B			RPT□-160C			RPT□-160D												
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	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 ~ 0.6A	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											
	RIPLE & 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%	+7,-5%									
INPUT	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/230VAC/115VAC at full load																				
	VOLTAGE RANGE Note.6	90 ~ 264VAC			127 ~ 370VDC																	
	FREQUENCY RANGE	47 ~ 63Hz																				
PROTECTION	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 Note.9	Earth leakage current < 200µA/264VAC , Touch current < 100µA/264VAC																				
	OVERLOAD	105 ~ 135% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed																				
FUNCTION	OVER VOLTAGE	CH1: 5.75 ~ 6.75V Protection type : Shut down o/p voltage, re-power on to recover																				
	OVER TEMPERATURE	TSW1: Shut down o/p voltage, recovers automatically after temperature goes down TSW2: Shut down o/p voltage, re-power on to recover																				
	5V STANDBY (G model)	5VSB : 5V@0.6A without fan, 0.8A with fan 20.5CFM ; tolerance ± 2%, ripple : 50mVp-p(max.)																				
ENVIRONMENT	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	500ms>PG>10ms PF>1ms																				
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")																				
SAFETY & EMC (Note 4)	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																				
OTHERS	SAFETY STANDARDS	ANSI/AAMI ES60601-1, TUV EN60601-1 approved																				
	ISOLATION LEVEL	Primary-Secondary: 2xMOPP, Primary-Earth:1xMOPP, Secondary-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																				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A																				
NOTE	MTBF	191.4K hrs min. MIL-HDBK-217F (25°C)																				
	DIMENSION	127*76.2*34.6mm (L*W*H)																				
	PACKING	0.33Kg; 36pcs/12.9Kg/0.79CUFT																				
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. HS1,HS2 & HS3 can not be shorted. 6. Derating may be needed under low input voltages. Please check the derating curve for more details. 7. The rated power includes 5Vsb @ 0.6A. 8. The rated power includes 5Vsb @ 0.8A. 9. Touch current was measured from primary input to DC output.																						

### Mechanical Specification

Unit:mm



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

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

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

Pin No.	Assignment	Mating Housing	Terminal
1,2,3,4	COM		
5,6	CH1	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
7	CH2		
8	CH3		

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

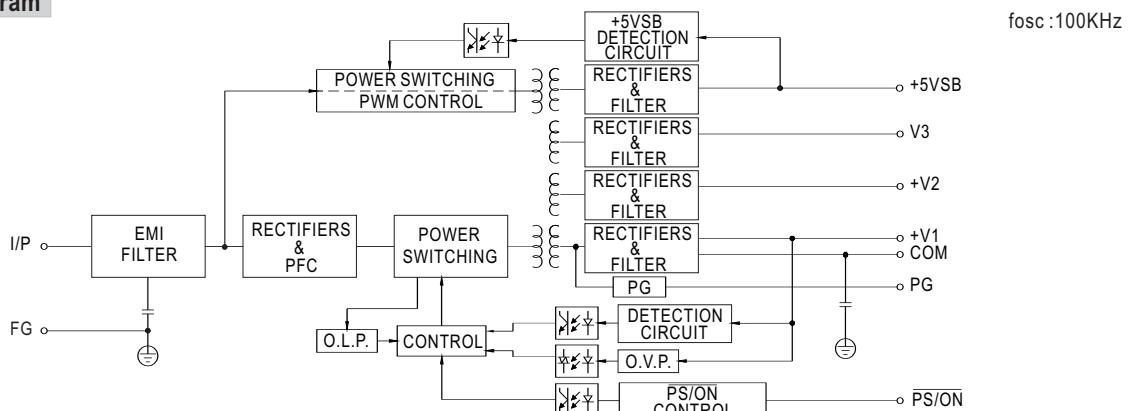
Pin No.	Status	Mating Housing	Terminal
1	PG	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	GND		

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

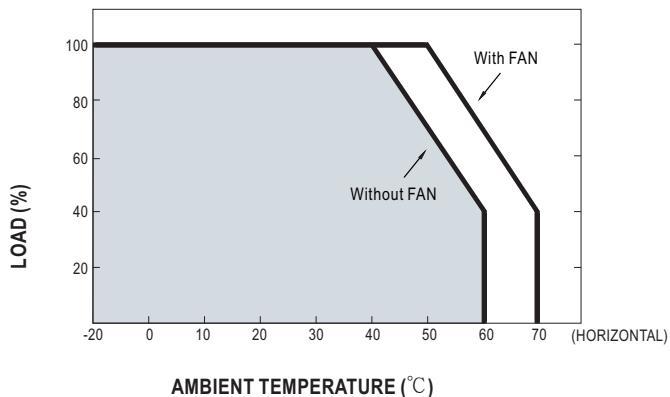
Pin No.	Assignment	Mating Housing	Terminal
1	PS/ON	JST XHP or equivalent	JST SXH-001T or equivalent
2,4	GND		
3	5VSB		

1. HS1,HS2,HS3 can not be shorted  
2. M1 and M2 are Safety ground and should all be grounded.

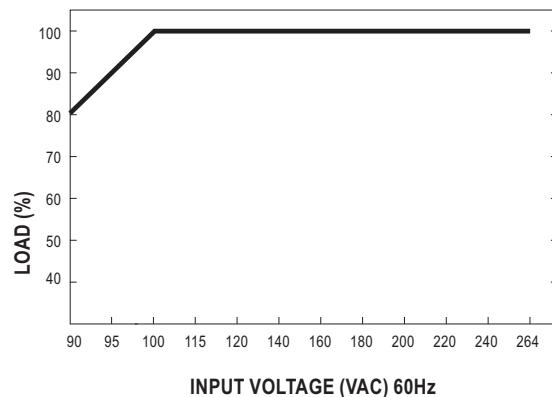
### Block Diagram



### Derating Curve



### Output Derating VS Input Voltage



# Mouser Electronics

Authorized Distributor

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