



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- 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)

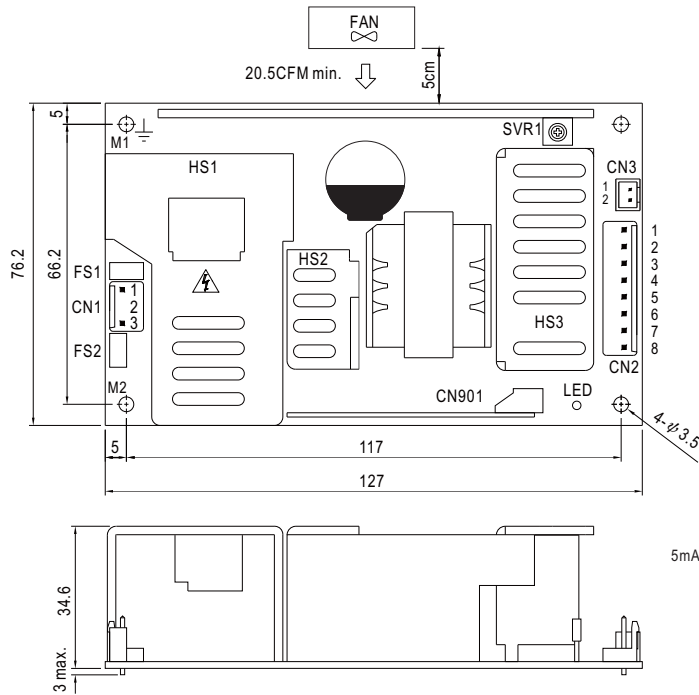


**SPECIFICATION**

MODEL	RPT□-160A			RPT□-160B			RPT□-160C			RPT□-160D		
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		
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%	+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/230VAC/115VAC at full load											
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 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											
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.)											
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")											
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 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), EN55032 (CISPR32) 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											
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											
NOTE	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 http://www.meanwell.com) 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	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

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

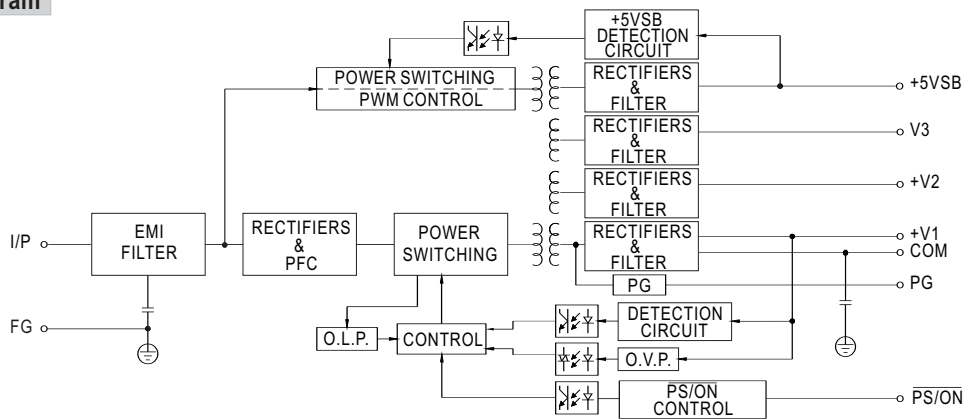
Pin No.	Status	Mating Housing	Terminal
1	PG	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	GND		

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		

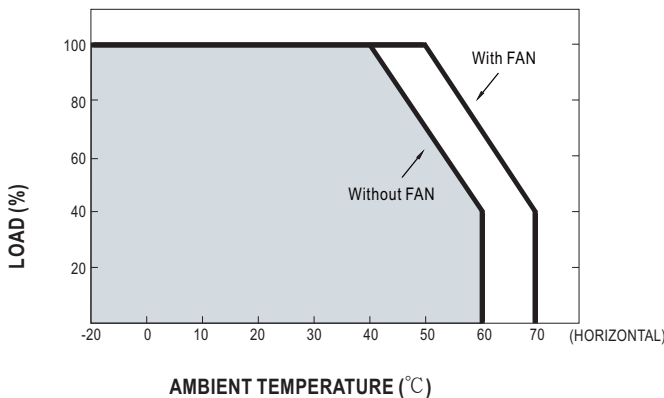
- 1.HS1,HS2,HS3 can not be shorted
- 2.M1 and M2 are Safety ground and should all be grounded.

**Block Diagram**



fosc :100KHz

**Derating Curve**



**Output Derating VS Input Voltage**

