



## 250W ATX PC Power Supply

# YP-350A-AA



- Features :
  - AC input range selected by switch
  - With +5VSB:0 ~ 2.0A max.
  - Power good signal output
  - Power fail signal output
  - Power ON-OFF switch
  - High efficiency / Low cost
  - Forced air cooling by built-in DC fan
  - 100% full load burn-in test
  - Approvals: CSA / FCC
  - 1 year warranty

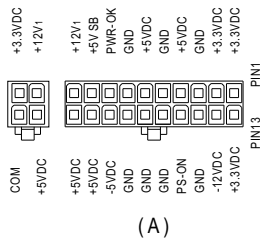
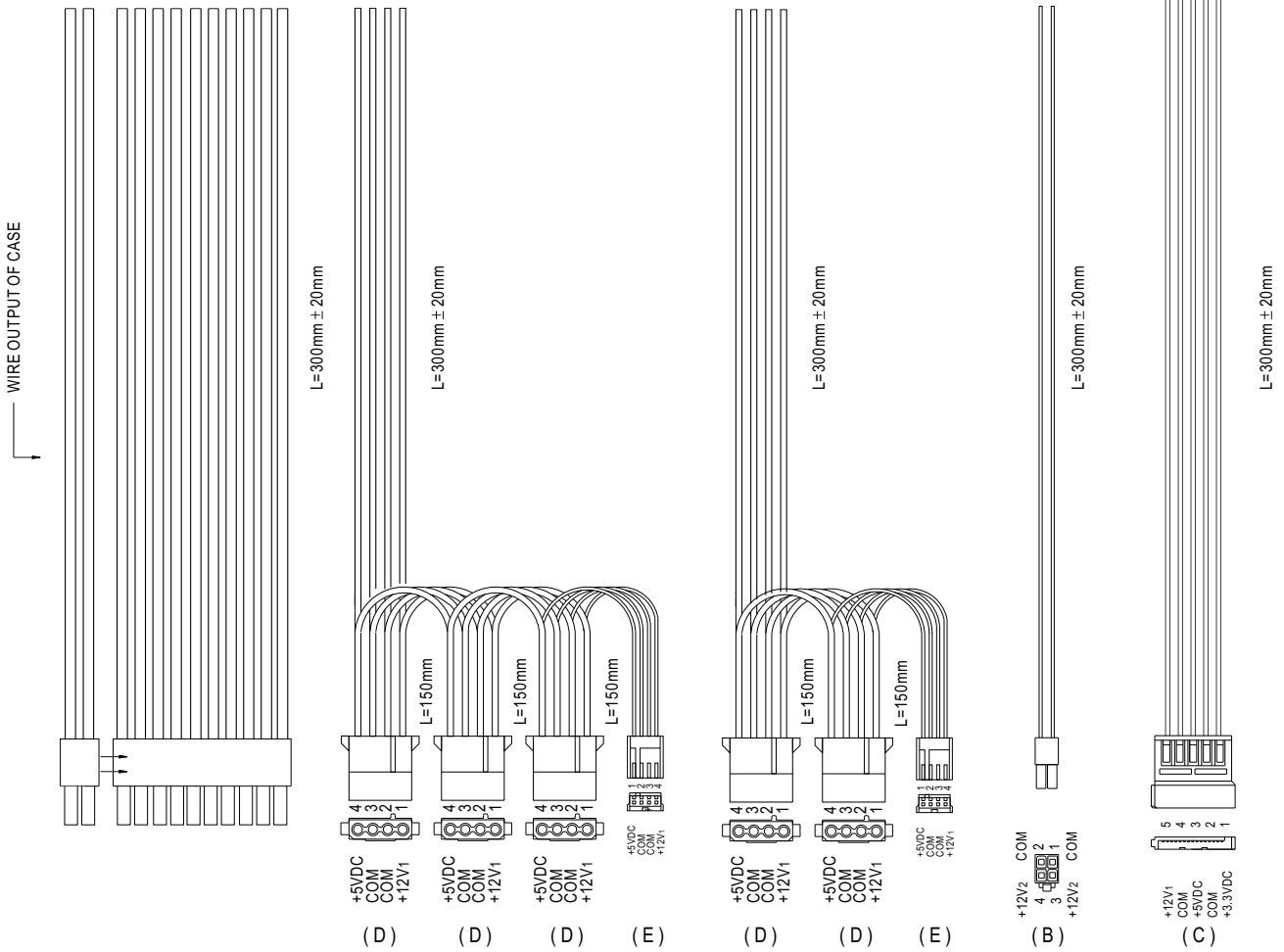
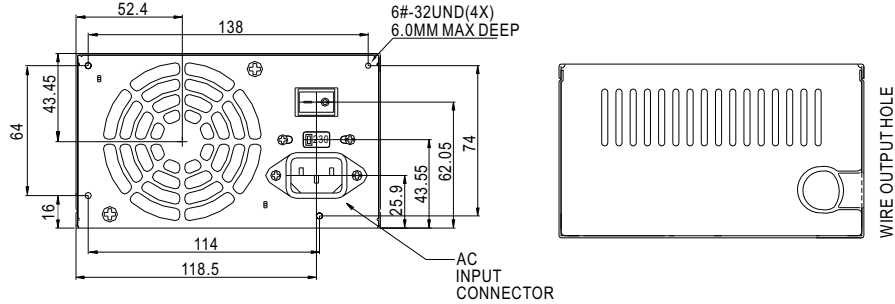


### SPECIFICATION

<b>ORDER NO.</b>		<b>YP-350A-AA</b>						
<b>OUTPUT</b>	<b>SAFETY MODEL NO.</b>	YP-350-A						
	<b>CHANNEL</b>	CH1	CH2	CH3	CH4	CH5	CH6	STANDBY
	<b>DC VOLTAGE</b>	3.3V	5V	12V <sub>1</sub>	12V <sub>2</sub>	-5V	-12V	5VSB
	<b>MINIMUM CURRENT</b>	2A	2A	1A	1A	0.1A	0.1A	0A
	<b>RATED CURRENT</b>	12A	12A	5A	5A	0.3A	0.8A	2.0A
	<b>MAXIMUM CURRENT</b>	17A	18A	8A	14A	0.3A	0.8A	2.0A
	<b>COMBINE LOAD</b>	+5V, +3.3V 115W max. +5V, +3.3V, +12V 230W max.						
	<b>RATED POWER (max.)</b>	250W						
	<b>RIPPLE &amp; NOISE (max.)</b> Note.2	50mVp-p	50mVp-p	120mVp-p	120mVp-p	50mVp-p	120mVp-p	50mVp-p
	<b>LINE REGULATION</b>	±1.0%	±1.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%
	<b>LOAD REGULATION</b> Note.3	±5.0%	±5.0%	±5.0%	±5.0%	±10%	±10%	±5.0%
<b>HOLD UP TIME</b>	8ms min. at full load							
<b>INPUT</b>	<b>VOLTAGE RANGE</b>	103 ~ 132VAC / 206 ~ 264VAC selected by switch						
	<b>FREQUENCY RANGE</b>	47 ~ 63Hz						
	<b>EFFICIENCY (Typ.)</b>	70%						
	<b>AC CURRENT</b>	8A / 115VAC    4.5A / 230VAC						
	<b>INRUSH CURRENT (max.)</b>	40A / 115VAC    80A / 230VAC						
	<b>LEAKAGE CURRENT(max.)</b>	3.5mA / 240VAC						
<b>PROTECTION</b>	<b>OVERLOAD</b>	105 ~ 180% rated output power Protection type : Shut down o/p voltage, re-power on to recover						
	<b>OVER VOLTAGE</b>	+3.3V, +5V, +12V <sub>1</sub> , +12V <sub>2</sub> : 110%~130% of rated voltage Protection type : Shut down o/p voltage, re-power on to recover						
	<b>SHORT CIRCUIT</b>	All output equipped with short circuit Protection type : Shut down o/p voltage, re-power on to recover						
<b>FUNCTION</b>	<b>POWER GOOD SIGNAL</b>	The TTL compatible signal out with 100ms to 500ms delay after power set up						
	<b>POWER FAIL SIGNAL</b>	The TTL compatible signal will go down at least 1ms before +5V below 4.75V						
	<b>PS-ON INPUT SIGNAL</b>	Power on: PS-ON = "Low" or "<0.8V" ; Power off: PS-ON = "Hi" or ">2V"						
<b>ENVIRONMENT</b>	<b>WORKING TEMP.</b>	-10 ~ +35°C						
	<b>WORKING HUMIDITY</b>	20 ~ 90% RH non-condensing						
	<b>STORAGE TEMP., HUMIDITY</b>	-20 ~ +85°C, 10 ~ 95% RH						
	<b>TEMP. COEFFICIENT</b>	±0.05% / °C (0 ~ 50°C)						
	<b>VIBRATION</b>	10 ~ 200Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
<b>SAFETY &amp; EMC (Note 4)</b>	<b>SAFETY STANDARDS</b>	CSA(C22.2 60950, UL60950) approved						
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P, I/P-FG:1.5KVAC						
	<b>ISOLATION RESISTANCE</b>	I/P-O/P, I/P-FG:50M Ohms / 500VDC / 25°C / 70% RH						
	<b>EMI CONDUCTION &amp; RADIATION</b>	Compliance to FCC part 15 class B						
<b>OTHERS</b>	<b>MTBF</b>	100K hrs min.    MIL-HDBK-217F (25°C)						
	<b>CONNECTOR</b>	ATX main power connector * 1ea; +12V power connector * 1ea; Serial ATA connector * 1ea						
		Peripheral power connector * 5 ea; Floppy drive power connector * 2 ea						
	<b>COOLING</b>	Forced air ventilation by 8cm DC fan						
	<b>DIMENSION</b>	150*140*86mm (L*W*H)						
	<b>PACKING</b>	1.1kg ; 12pcs / 16kg / CARTON						
<b>NOTE</b>	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. Load regulation is measured from 20% to 100% max. Load. 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.							

**Mechanical Specification**

Unit: mm



- (A) 24 Pin ATX main power connector (or 20+4pin) Type: MOLEX 39-01-2240 or equivalent
- (B) 12V power connector Type: MOLEX 39-01-2040 or equivalent
- (C) Serial ATA connector Type: MOLEX 88751 or equivalent
- (D) Peripheral connector Type: MOLEX 8981-04P or equivalent
- (E) Floppy drive connector Type: AMP 171822-4 or equivalent



- Features :
- 230VAC input only
  - Built-in passive PFC, PF>0.65
  - With +5VSB:0 ~ 2.0A max.
  - Power good signal output
  - Power fail signal output
  - Power ON-OFF switch
  - High efficiency / Low cost
  - Forced air cooling by built-in DC fan
  - 100% full load burn-in test
  - Approvals: TUV / CE
  - 1 year warranty

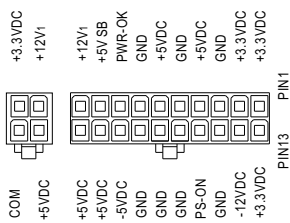
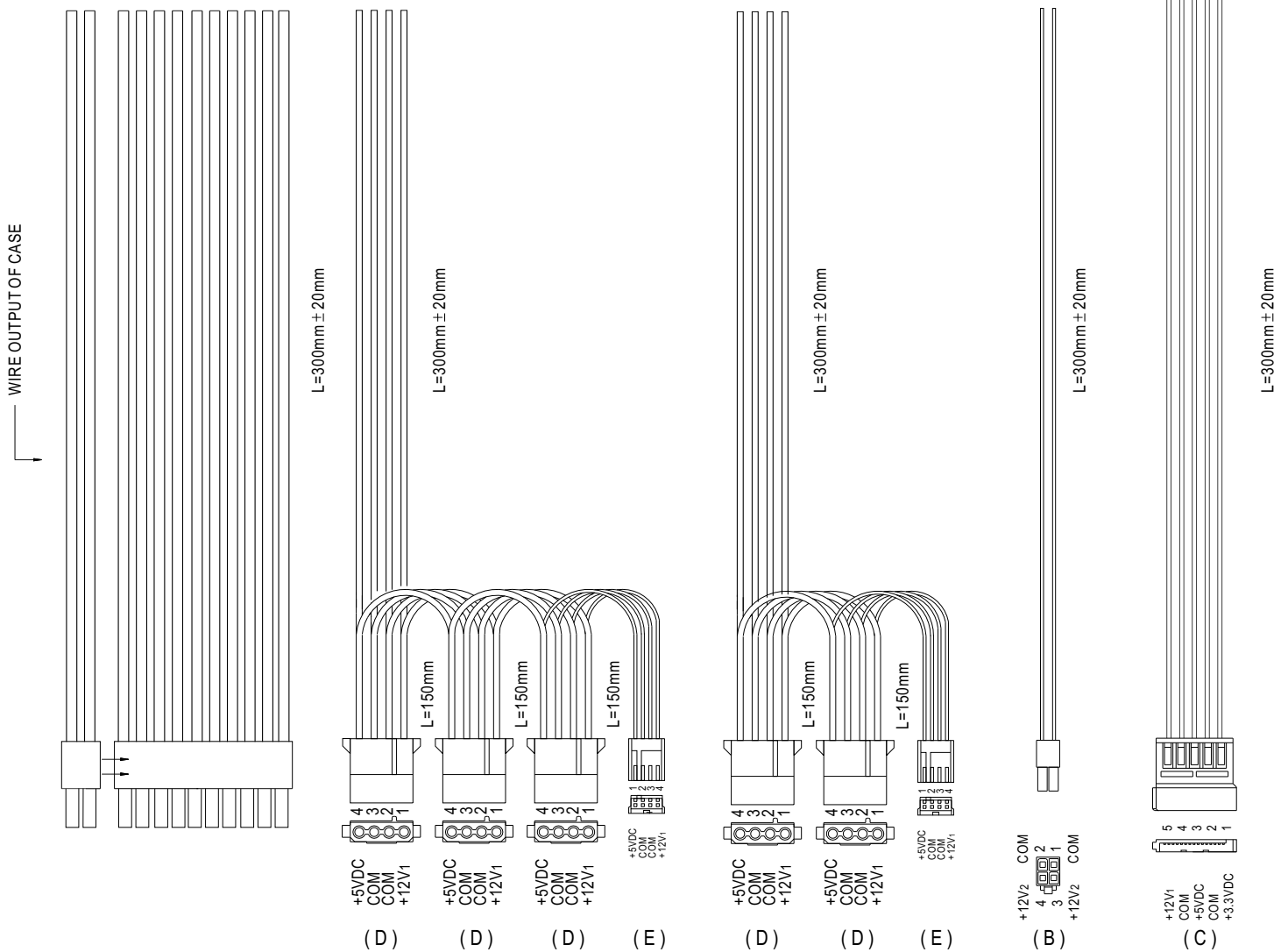
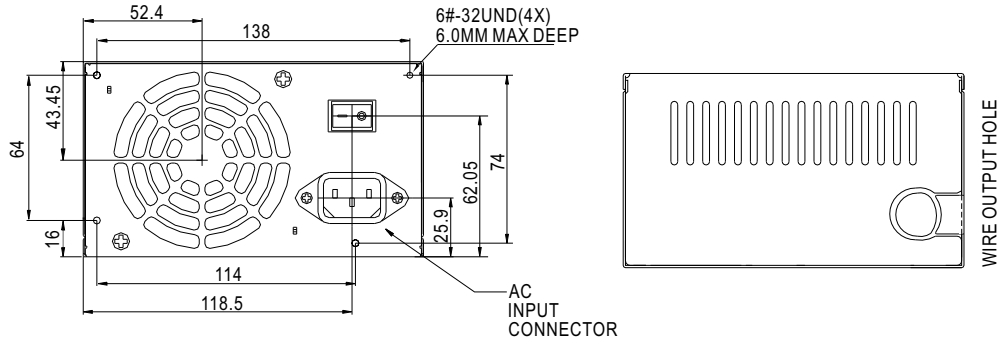


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	MINIMUM CURRENT	2A	2A	1A	1A	0.1A	0.1A	0A
	RATED CURRENT	12A	12A	5A	5A	0.3A	0.8A	2.0A
	MAXIMUM CURRENT	17A	18A	8A	14A	0.3A	0.8A	2.0A
	COMBINE LOAD	+5V, +3.3V 115W max.						
		+5V, +3.3V, +12V 230W max.						
	RATED POWER (max.)	250W						
	RIPPLE & NOISE (max.) Note.2	50mVp-p	50mVp-p	120mVp-p	120mVp-p	50mVp-p	120mVp-p	50mVp-p
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%
	LOAD REGULATION Note.3	±5.0%	±5.0%	±5.0%	±5.0%	±10%	±10%	±5.0%
HOLD UP TIME	8ms min. at full load							
INPUT	VOLTAGE RANGE	206 ~ 264VAC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF>0.65 / 230VAC						
	EFFICIENCY (Typ.)	70%						
	AC CURRENT	5A / 230VAC						
	INRUSH CURRENT (max.)	80A / 230VAC						
	LEAKAGE CURRENT(max.)	3.5mA / 240VAC						
PROTECTION	OVERLOAD	105 ~ 180% rated output power Protection type : Shut down o/p voltage, re-power on to recover						
	OVER VOLTAGE	+3.3V, +5V, +12V <sub>1</sub> , +12V <sub>2</sub> : 110%~130% of rated voltage Protection type : Shut down o/p voltage, re-power on to recover						
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	VIBRATION	10 ~ 200Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
SAFETY & EMC (Note 4)	SAFETY STANDARDS	TUV EN60950-1 approved						
	WITHSTAND VOLTAGE	I/P-O/P, I/P-FG:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG:50M Ohms / 500VDC / 25°C / 70% RH						
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) class B						
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4, 5,6,8,11, light industry level, criteria A						
	MTBF	100K hrs min. MIL-HDBK-217F (25°C)						
	CONNECTOR	ATX main power connector * 1ea; +12V power connector * 1ea; Serial ATA connector * 1ea						
		Peripheral power connector * 5 ea; Floppy drive power connector * 2 ea						
	COOLING	Forced air ventilation by 8cm DC fan						
DIMENSION	150*140*86mm (L*W*H)							
PACKING	1.1kg ; 12pcs / 16kg / CARTON							
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. Load regulation is measured from 20% to 100% max. Load.</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> </ol>							

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