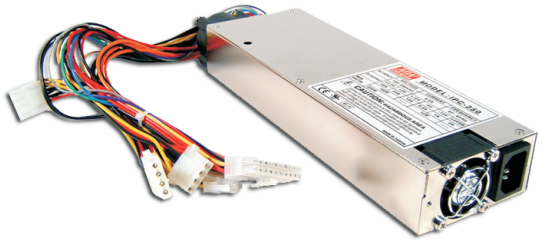
250W Industrial 1U ATX 12V/P4 PC Power Supply

IPC-250



Features :

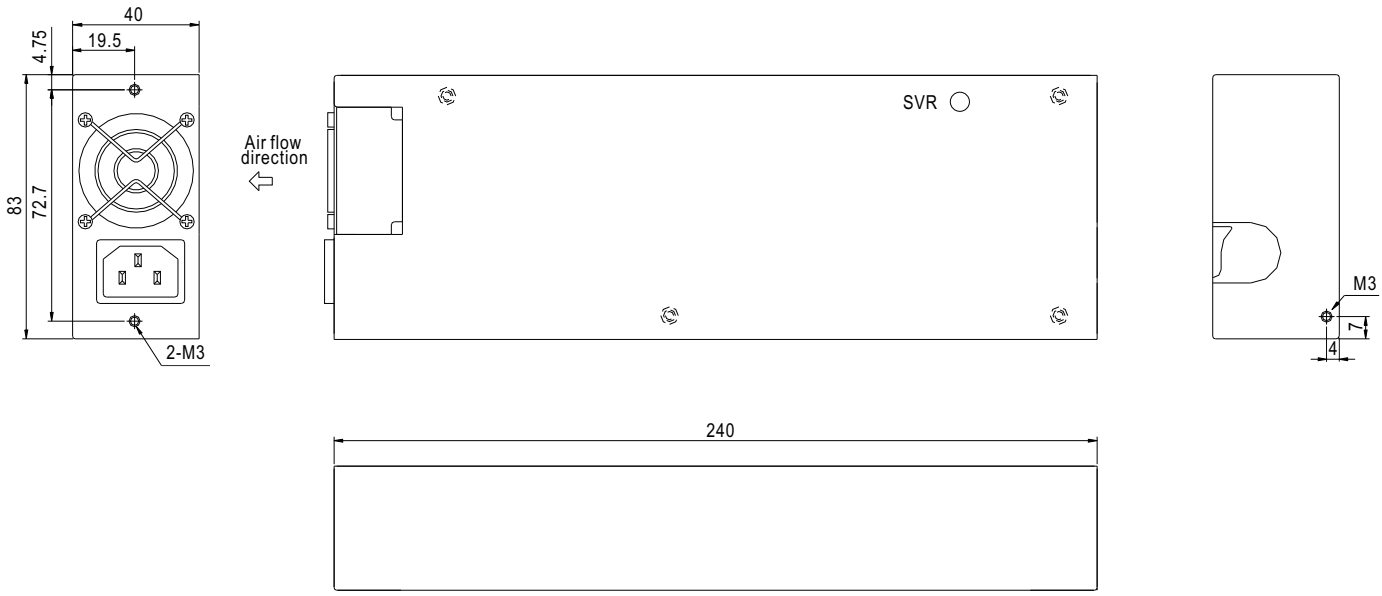
- Meet 1U rack mount system
- Universal AC input / Full range
- Active power factor ≧94%
- Protections:Short circuit/Over load/Over voltage
- Forced air cooling by built-in DC fan
- With power good and fail signal output
- Built-in remote ON-OFF control
- Remote DC sense +5V and +3.3V
- With +5VSB:0 ~ 2.0A max.
- 100% full load burn-in test
- High efficiency
- 2 years warranty

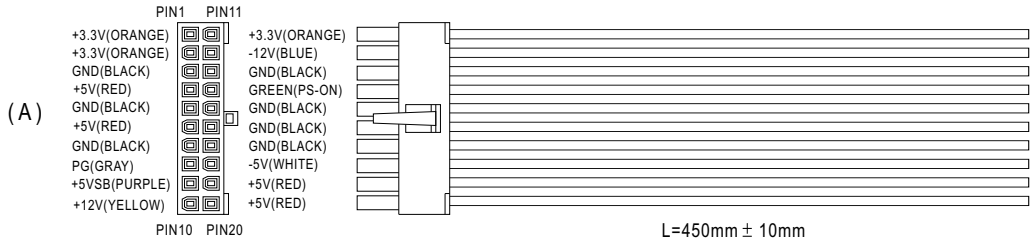
SPECIFICATION

MODEL		IPC-250					
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH5	STANDBY
	DC VOLTAGE	3.3V	5V	12V	-5V	-12V	5VSB
	RATED CURRENT	20A	25A	15A	0.5A	1A	2A
	CURRENT RANGE	0 ~ 20A	1 ~ 25A	1 ~ 15A	0 ~ 0.5A	0.1 ~ 1A	0 ~ 2A
	RATED POWER	250W continue. +5V,+3.3V,+12V combine total power output shall not exceed 230W. (The +5 & +3.3Volt combine total output shall not exceed 150W) (The -5 & -12Volt combine total output shall not exceed 12W)					
	RIPPLE & NOISE (max.) Note.2	50mVp-p	50mVp-p	120mVp-p	100mVp-p	120mVp-p	50mVp-p
	VOLTAGE ADJ. RANGE	CH1:3.14 ~ 3.5V					
	VOLTAGE TOLERANCE Note.3	±5.0%	±5.0%	±7.0%	±8.0%	±10%	±5.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%
	LOAD REGULATION	±5.0%	±5.0%	±7.0%	±8.0%	±10%	±5.0%
	SETUP, RISE TIME	800ms, 20ms/230VAC 2500ms, 20ms/115VAC at full load					
	HOLD TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load					
INPUT	VOLTAGE RANGE	90 ~ 264VAC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	75%					
	AC CURRENT (Typ.)	4A/115VAC 2A/230VAC					
	INRUSH CURRENT (Typ.)	40A/115VAC 80A/230VAC					
	LEAKAGE CURRENT(max.)	3mA/240VAC					
PROTECTION	OVER LOAD	105 ~ 150% rated output power					
		Protection type : Shut down o/p voltage, re-power on to recover					
	OVER VOLTAGE	+3.3V, +5V: 110% ~ 140% of rated voltage ; +12V:13.2V ~ 16V					
		Protection type : Shut down o/p voltage, re-power on to recover					
	SHORT CIRCUIT	All output equipped with short circuit					
		Protection type : Shut down o/p voltage, re-power on to recover					
FUNCTION	POWER GOOD SIGNAL	The TTL compatible signal out with 100ms to 500ms delay after power set up					
	POWER FAIL SIGNAL	The TTL compatible signal will go down at least 1ms before +5V below 4.75V					
	PS-ON INPUT SIGNAL	Power off: PS-ON = "Hi" or ">2V" ; Power on: PS-ON = "Low" or "<0.5V"					
ENVIRONMENT	WORKING TEMP.	-10 ~ +60℃ (Refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃ 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.05% / ℃ (0 ~ 50℃)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved					
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:50M Ohms/500VDC					
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B, Design refer to FCC part 15 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, EN61000-6-2 (EN50082-2) Heavy industry level, criteria A					
OTHERS	MTBF	94.1K hrs min. MIL-HDBK-217F (25℃)					
	CONNECTOR	ATX main power connector * 1ea; +12V power connector * 1ea					
		Peripheral power connector * 3ea; Floppy drive power connector * 1ea					
	COOLING	Forced air ventilation by 4cm DC fan					
	DIMENSION	240*83*40mm (L*W*H)					
	PACKING	1.44Kg; 10pcs/15.4Kg/0.89CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.						

■ Mechanical Specification

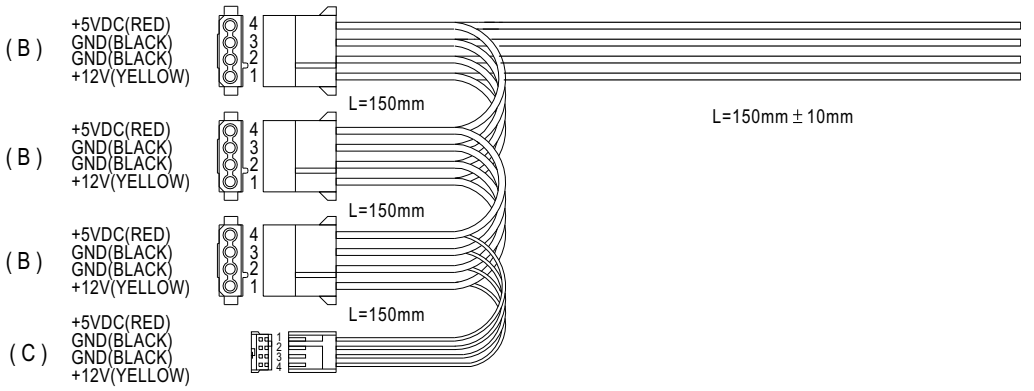
Case No. IPC-250 Unit:mm





(A)

(WIRE OUTPUT OF PCB, 18AWG)



(A)MOLEX 39-01-2200 or equivalent

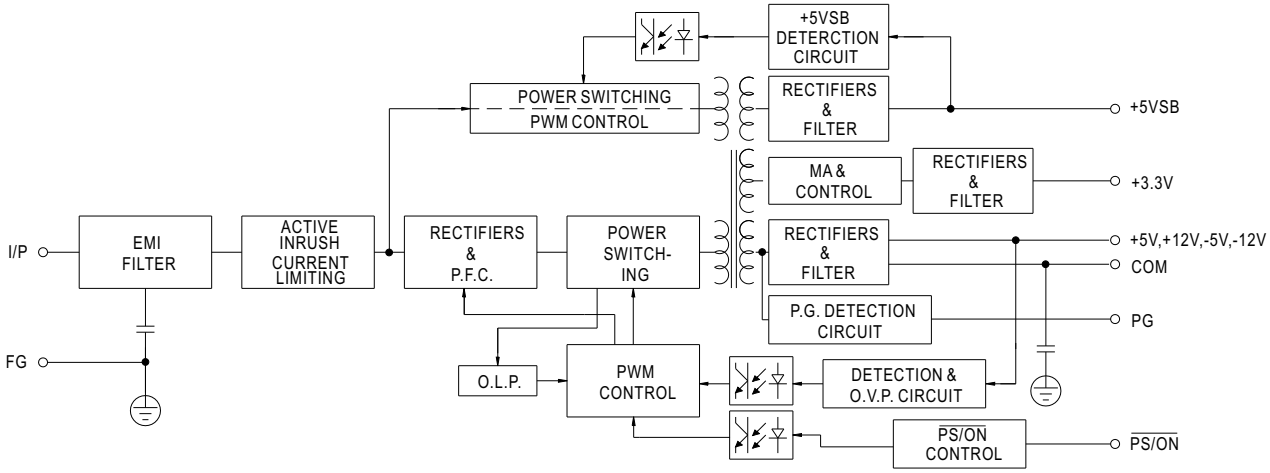
(B)MOLEX 8981-04P or equivalent

(C)AMP 171822-4 or equivalent

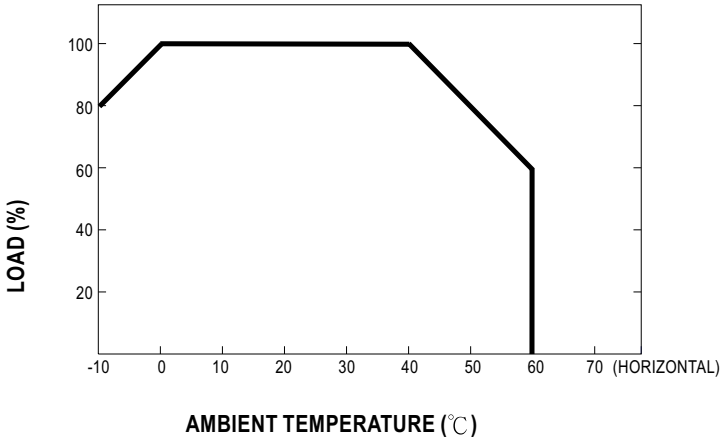
(D)MOLEX 39-01-2040 or equivalent

■ Block Diagram

fosc : 100KHz



■ Derating Curve



■ Output Derating VS Input Voltage