



■ Features :

- Meet 1U rack mount system
- Universal AC input / Full range
- Active power factor $\geq 94\%$
- Protections: Short circuit/Overload/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

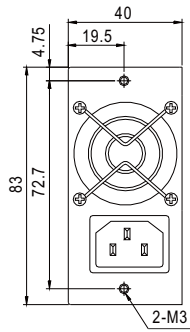


SPECIFICATION

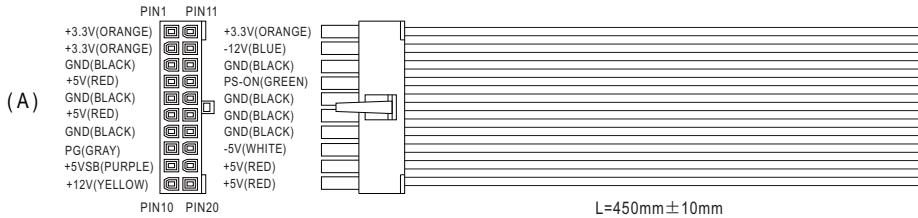
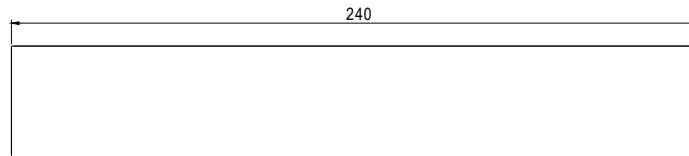
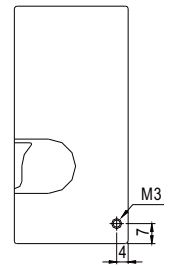
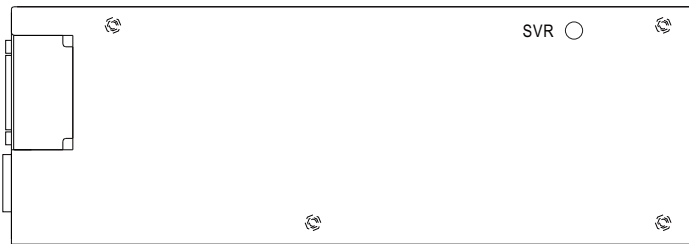
| MODEL | | IPC-250 | | | | | | |
|-----------------------|--|--|-------------|-------------|-------------|-------------|-------------|--|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH4 | CH5 | STANDBY | |
| | DC VOLTAGE | 3.3V | 5V | 12V | -5V | -12V | 5VSB | |
| | RATED CURRENT | 20A | 25A | 15A | 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 & +3.3V combine total output shall not exceed 150W) (The -5 & -12V 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 | CH2 : 5.05 ~ 5.5V | | | | | | |
| | VOLTAGE TOLERANCE Note.3 | $\pm 5.0\%$ | $\pm 5.0\%$ | $\pm 7.0\%$ | $\pm 8.0\%$ | $\pm 10\%$ | $\pm 5.0\%$ | |
| | LINE REGULATION | $\pm 1.0\%$ | $\pm 1.0\%$ | $\pm 1.0\%$ | $\pm 2.0\%$ | $\pm 2.0\%$ | $\pm 1.0\%$ | |
| | LOAD REGULATION | $\pm 5.0\%$ | $\pm 5.0\%$ | $\pm 7.0\%$ | $\pm 8.0\%$ | $\pm 10\%$ | $\pm 5.0\%$ | |
| | 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°C (Refer to "Derating Curve") | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C 10 ~ 95% RH non-condensing | | | | | | |
| | TEMP. COEFFICIENT | $\pm 0.05\% / ^\circ\text{C}$ (0 ~ 50°C) | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | |
| SAFETY & EMC (Note 5) | SAFETY STANDARDS | UL60950-1, TUV EN60950-1 approved | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P: 1.5KVAC I/P-FG: 2KVAC | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG: 50M Ohms / 500VDC / 25°C / 70% RH | | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, Design refer to FCC part 15 Class B, EN61000-3-2,-3 | | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A | | | | | | |
| OTHERS | MTBF | 94.1K hrs min. MIL-HDBK-217F (25°C) | | | | | | |
| | 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 | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Load regulation is measured from 20% to 100% max. Load.</p> <p>4. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>5. 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)</p> <p>6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> | | | | | | | |

Mechanical Specification

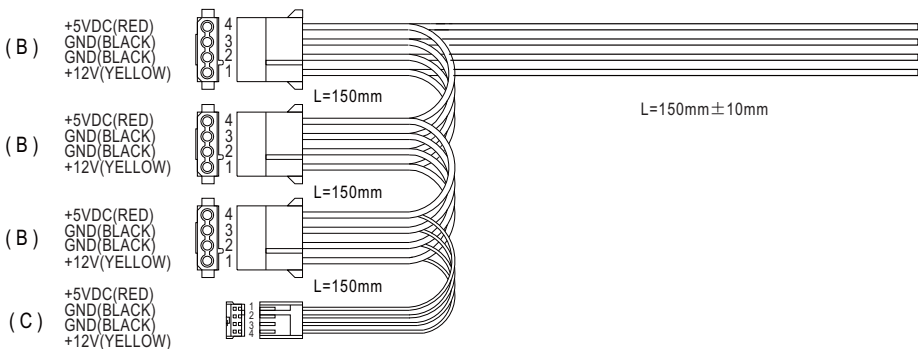
Case No. IPC-250 Unit:mm



Air flow direction
←



(WIRE OUTPUT OF PCB, 18AWG)



(A) MOLEX 39-01-2200 or equivalent

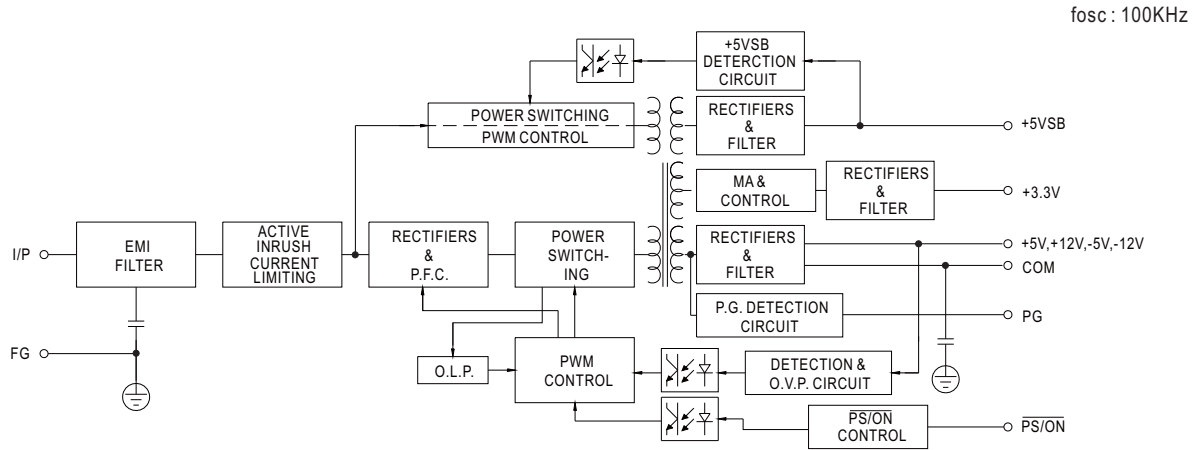
(B) MOLEX 8981-04P or equivalent

(C) AMP 171822-4 or equivalent

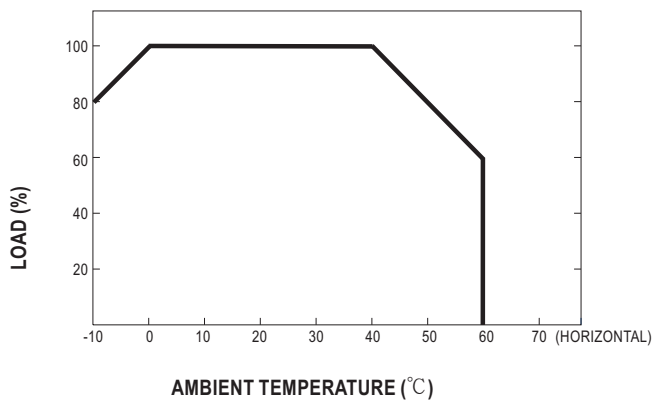
(D) MOLEX 39-01-2040 or equivalent



Block Diagram



Derating Curve



Output Derating VS Input Voltage

