



- Features :
 - Universal AC input / Full range
 - Built-in active PFC function, PF>0.95
 - Protections: Short circuit / Overload / Over voltage
 - Low profile: 33mm thickness
 - LED indicator for power on
 - Cooling by free air convection
 - Fixed switching frequency at PFC:67KHz PWM:134KHz
 - 3 years warranty



SPECIFICATION

| MODEL | | TP-75A | | | TP-75B | | | TP-75C | | |
|-----------------------|------------------------------|--|----------|--------------|-----------------------------|----------|----------|-----------|----------|----------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 |
| | DC VOLTAGE | 5V | 12V | -5V | 5V | 12V | -12V | 5V | 15V | -15V |
| | RATED CURRENT | 7A | 3A | 0.6A | 7A | 3A | 0.4A | 6A | 2.5A | 0.5A |
| | CURRENT RANGE | 1.5 ~ 10A | 0.2 ~ 4A | 0 ~ 0.6A | 1.5 ~ 10A | 0.2 ~ 4A | 0 ~ 0.6A | 1.5 ~ 10A | 0.2 ~ 3A | 0 ~ 0.6A |
| | RATED POWER | 74W | | | 75.8W | | | 75W | | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 120mVp-p | 100mVp-p | 100mVp-p | 120mVp-p | 120mVp-p | 100mVp-p | 120mVp-p | 120mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 4.75 ~ 5.5V | | | | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±4.0% | ±8.0% | ±3.0% | ±4.0% | ±8.0% | ±3.0% | ±4.0% | ±8.0% |
| | LINE REGULATION | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | LOAD REGULATION | ±3.0% | ±4.0% | ±8.0% | ±3.0% | ±4.0% | ±8.0% | ±3.0% | ±4.0% | ±8.0% |
| SETUP, RISE TIME | 800ms, 60ms at full load | | | | | | | | | |
| HOLD UP TIME (Typ.) | 36ms at full load | | | | | | | | | |
| INPUT | VOLTAGE RANGE Note.4 | 90 ~ 264VAC | | 127 ~ 370VDC | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.95/230VAC | | | PF>0.97/115VAC at full load | | | | | |
| | EFFICIENCY (Typ.) | 70% | | | | | | | | |
| | AC CURRENT (Typ.) | 1.5A/115VAC | | 0.8A/230VAC | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 20A/230VAC | | | | | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V on +5V Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +60°C (Refer to "Derating Curve") | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH non-condensing | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | | | | |
| SAFETY & EMC (Note 5) | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | | | |
| | SAFETY STANDARDS | UL60950-1, TUV EN60950-1 approved | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC 1min. | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3 | | | | | | | | |
| OTHERS | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A | | | | | | | | |
| | MTBF | 198.4K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | |
| | DIMENSION | 179*99*33mm (L*W*H) | | | | | | | | |
| NOTE | PACKING | 0.65Kg; 20pcs/12.7Kg/0.64CUFT | | | | | | | | |
| | | 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. Derating may be needed under low input voltages. Please check the derating curve for more details. 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) 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). | | | | | | | | |



- Features :
 - Universal AC input / Full range
 - Built-in active PFC function, PF>0.95
 - Protections: Short circuit / Overload/ Over voltage
 - Low profile: 33mm thickness
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 - Fixed switching frequency at PFC:67KHz PWM:134KHz
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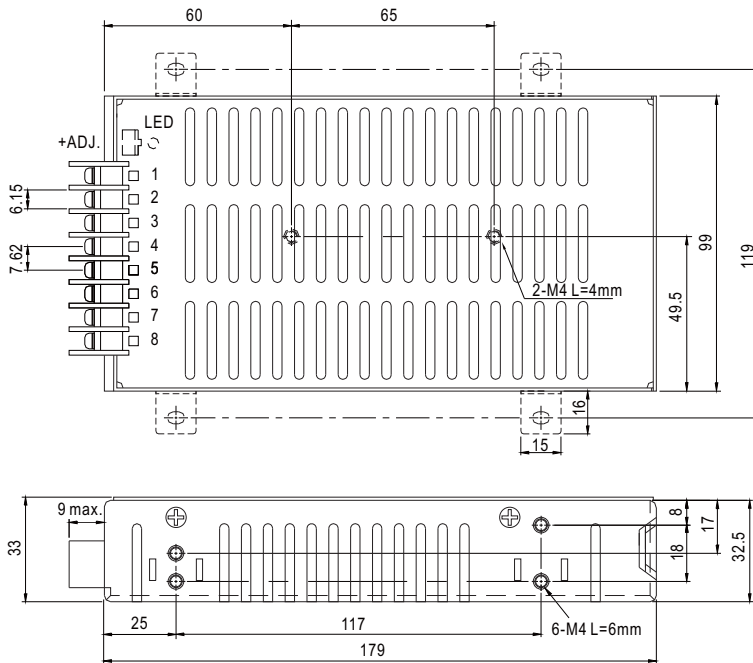


SPECIFICATION

| MODEL | | TP-75D | | | TP-7503 | | |
|-----------------------|--|---|-----------------------------|----------|-----------|----------|----------|
| OUTPUT | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH1 | CH2 | CH3 |
| | DC VOLTAGE | 5V | 24V | 12V | 5V | 3.3V | 12V |
| | RATED CURRENT | 7A | 1.5A | 0.4A | 9A | 8A | 0.3A |
| | CURRENT RANGE | 1.5 ~ 10A | 0.2 ~ 2.5A | 0 ~ 0.6A | 1.5 ~ 10A | 0.2 ~ 8A | 0 ~ 0.6A |
| | RATED POWER | 75.8W | | | 75W | | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 120mVp-p | 120mVp-p | 100mVp-p | 50mVp-p | 120mVp-p |
| | VOLTAGE ADJ. RANGE | CH1: 4.75 ~ 5.5V | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±4.0% | ±8.0% | ±3.0% | ±4.0% | ±8.0% |
| | LINE REGULATION | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% |
| | LOAD REGULATION | ±3.0% | ±4.0% | ±8.0% | ±3.0% | ±4.0% | ±8.0% |
| SETUP, RISE TIME | 800ms, 60ms at full load | | | | | | |
| HOLD UP TIME (Typ.) | 36ms at full load | | | | | | |
| INPUT | VOLTAGE RANGE Note.4 | 90 ~ 264VAC | 127 ~ 370VDC | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
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| | EFFICIENCY (Typ.) | 70% | | | | | |
| | AC CURRENT (Typ.) | 1.5A/115VAC | 0.8A/230VAC | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 20A/230VAC | | | | | |
| | LEAKAGE CURRENT | <2mA / 240VAC | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | |
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| | STORAGE TEMP., HUMIDITY | -20 ~ +85°C, 10 ~ 95% RH non-condensing | | | | | |
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| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | |
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| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC 1min. | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3 | | | | | |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A | | | | | |
| OTHERS | MTBF | 198.4K hrs min. MIL-HDBK-217F (25°C) | | | | | |
| | DIMENSION | 179*99*33mm (L*W*H) | | | | | |
| | PACKING | 0.65Kg; 20pcs/12.7Kg/0.64CUFT | | | | | |
| 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. Derating may be needed under low input voltages. Please check the derating curve for more details. 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) 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). | | | | | | |

Mechanical Specification

Case No. 920A Unit:mm

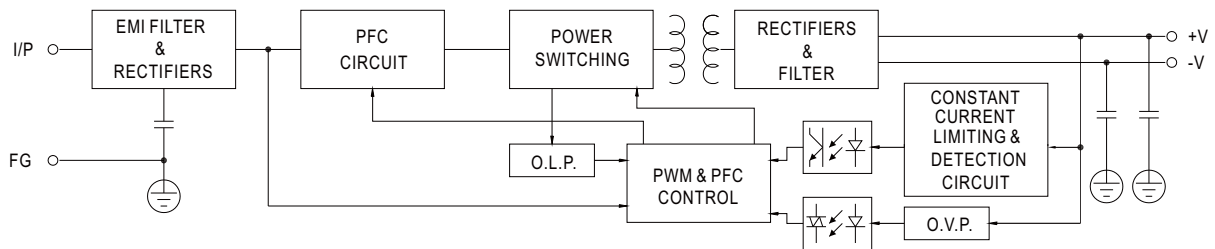


Terminal Pin No. Assignment

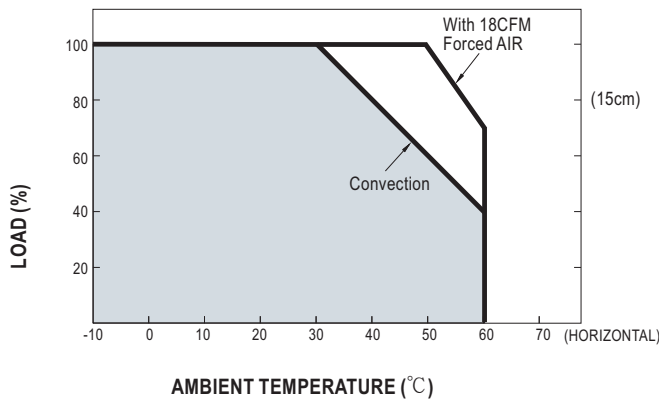
| Pin No. | Assignment | Pin No. | Assignment |
|---------|---------------|---------|------------|
| 1 | DC OUTPUT +V2 | 6 | FG \perp |
| 2,3 | COM | 7 | AC/N |
| 4 | DC OUTPUT +V1 | 8 | AC/L |
| 5 | DC OUTPUT +V3 | | |

Block Diagram

PFC fosc : 67KHz
PWM fosc : 134KHz



Derating Curve



Output Derating VS Input Voltage

