



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Free air cooling convection
- CH4: ±Polarity is selectable
- Fixed switching frequency at 100KHz
- 3 years warranty

SPECIFICATION



| MODEL | | QP-100-3A | | | | QP-100-3B | | | | QP-100-3C | | | | |
|-------------|--|---|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|--|
| | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH4 | CH1 | CH2 | CH3 | CH4 | CH1 | CH2 | CH3 | CH4 | |
| | DC VOLTAGE | 5V | 3.3V | 12V | -5V | 5V | 3.3V | 12V | -12V | 5V | 3.3V | 15V | -15V | |
| | RATED CURRENT | 8A | 8A | 2.5A | 0.6A | 8A | 8A | 2.2A | 0.6A | 8A | 8A | 1.7A | 0.6A | |
| | CURRENT RANGE | 2 ~ 10A | 0 ~ 10A | 0.3 ~ 3A | 0 ~ 1A | 2 ~ 10A | 0 ~ 10A | 0.3 ~ 3A | 0 ~ 1A | 2 ~ 10A | 0 ~ 10A | 0.3 ~ 2A | 0 ~ 1A | |
| | RATED POWER (max.) | 99.4W | | | 100W | | | | | 100.9W | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 100mVp-p | 150mVp-p | 150mVp-p | 100mVp-p | 100mVp-p | 150mVp-p | 150mVp-p | 100mVp-p | 100mVp-p | 150mVp-p | 150mVp-p | |
| OUTPUT | VOLTAGE ADJ. RANGE | CH1: 4.75 | ~ 5.5V | CH2: 3.14 | ~ 3.63V | CH1: 4.75 | ~ 5.5V | CH2: 3.14 | ~ 3.63V | CH1: 4.75 | ~ 5.5V | CH2: 3.14 | ~ 3.63V | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±3.0% | ±6.0% | ±5.0% | ±3.0% | ±3.0% | ±6.0% | ±5.0% | ±3.0% | ±3.0% | +8,-6% | ±5.0% | |
| | LINE REGULATION | ±1.0% | ±1.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±2.0% | ±1.0% | |
| | LOAD REGULATION | ±2.0% | ±2.0% | ±6.0% | ±2.0% | ±2.0% | ±2.0% | ±6.0% | ±2.0% | ±2.0% | ±2.0% | ±6.0% | ±2.0% | |
| | SETUP, RISE TIME | 800ms, 50ms/230VAC 800ms, 50ms/115VAC at full load | | | | | | | | | | | | |
| | HOLD UP TIME (Typ.) | 24ms/230VAC 24ms/115VAC at full load | | | | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | 90 ~ 264VAC 127 ~ 370VDC | | | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.95/230VAC PF>0.98/115VAC at full load | | | | | | | | | | | | |
| INPUT | EFFICIENCY (Typ.) | 74% 75% | | | | | | | | | | | | |
| | AC CURRENT (Typ.) | 1.5A/115VAC 0.75A/230VAC | | | | | | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START ≦40A/230V | | | | | | | | | | | | |
| | LEAKAGE CURRENT | <3.5mA / 240VAC | | | | | | | | | | | | |
| | | 105 ~ 150% rated output power | | | | | | | | | | | | |
| | OVERLOAD | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | | |
| PROTECTION | OVER VOLTAGE | CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V | | | | | | | | | | | | |
| | OVER VOLTAGE | Protection type: Shut down o/p voltage, re-power on to recover | | | | | | | | | | | | |
| | OVER TEMPERATURE(OPTION) | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | | | | |
| | WORKING TEMP. | -10 ~ +60 °C (Refer to "Derating Curve") | | | | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -20 ~ +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 | UL60950-1, TUV EN60950-1 approved | | | | | | | | | | | | |
| SAFETY & | WITHSTAND VOLTAGE | | | P-FG:2KVA | | | | | | | | | | |
| EMC | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | | | | |
| (Note 4) | EMC EMISSION | Compliance to EN55022 (CISPR22) 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 | 139.9K hrs min. MIL-HDBK-217F (25° C) | | | | | | | | | | | | |
| | DIMENSION | 199*99*50mm (L*W*H) | | | | | | | | | | | | |
| | PACKING | 0.87Kg; 20pcs/18.4Kg/1.28CUFT | | | | | | | | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p | ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. o tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on late with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) under low input voltages. Please check the derating curve for more details. | | | | | | | | | | | | |



■ Features :

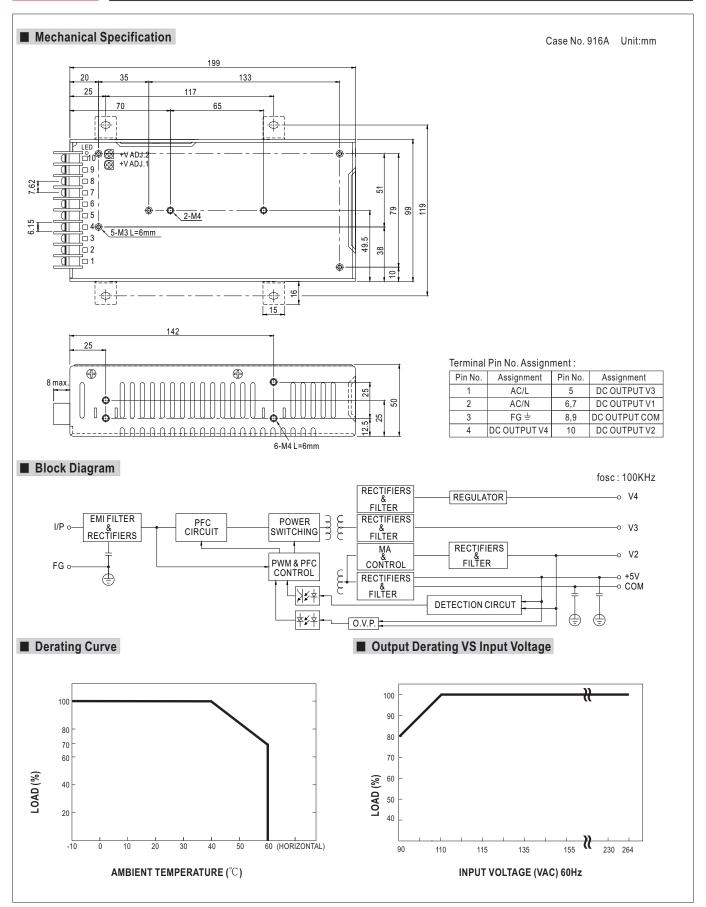
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections:Short circuit/Over load/Over voltage
- Free air cooling convection
- CH4: ±Polarity is selectable
- Fixed switching frequency at 100KHz
- 3 years warranty

SPECIFICATION



| MODEL | | QP-100-3D | | | | QP-100D | | | | QP-100F | | | | |
|--|--|---|---------|-----------|----------|-------------------------------------|--------|------------|---------|-------------------------------------|--------|-----------|-----------|--|
| | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH4 | CH1 | CH2 | CH3 | CH4 | CH1 | CH2 | CH3 | CH4 | |
| | DC VOLTAGE | 5V | 3.3V | 24V | -12V | 5V | 12V | 24V | -12V | 5V | 15V | 24V | -15V | |
| | RATED CURRENT | 8A | 8A | 1.3A | 0.6A | 8A | 2.4A | 1A | 0.6A | 8A | 2A | 1A | 0.6A | |
| | CURRENT RANGE | 2 ~ 10A | 0 ~ 10A | 0.3 ~ 2A | 0 ~ 1A | 2 ~ 10A | 0 ~ 3A | 0.3 ~ 2A | 0 ~ 1A | 2 ~ 10A | 0 ~ 3A | 0.3 ~ 2A | 0 ~ 1A | |
| | RATED POWER (max.) | 104.8W | | | ' | 100W | | | | 103W | | | | |
| CUTDUT | RIPPLE & NOISE (max.) Note.2 | 100mVp-p 100mVp-p 150mVp-p 150mVp-p | | | 150mVp-p | 120mVp-p 150mVp-p 200mVp-p 150mVp-p | | | | 120mVp-p 180mVp-p 200mVp-p 150mVp-p | | | | |
| OUTPUT | VOLTAGE ADJ. RANGE | CH1: 4.75 | ~ 5.5V | CH2: 3.14 | ~ 3.63V | CH1: 4.75 | ~ 5.5V | CH2: 11.4 | ~ 13.2V | CH1: 4.75 | ~ 5.5V | CH2: 14.3 | 3 ~ 16.5V | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±3.0% | ±6.0% | ±5.0% | ±3.0% | ±3.0% | ±6.0% | ±5.0% | ±3.0% | ±3.0% | ±6.0% | ±5.0% | |
| | LINE REGULATION | ±1.0% | ±1.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±2.0% | ±1.0% | |
| | LOAD REGULATION | ±2.0% | ±2.0% | ±6.0% | ±2.0% | ±2.0% | ±2.0% | ±6.0% | ±2.0% | ±2.0% | ±2.0% | ±6.0% | ±2.0% | |
| | SETUP, RISE TIME | 800ms, 50ms/230VAC 800ms, 50ms/115VAC at full load | | | | | | | | | | | | |
| | HOLD UP TIME (Typ.) | 24ms/230VAC 24ms/115VAC at full load | | | | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | 90 ~ 264VAC 127 ~ 370VDC | | | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.95/230VAC PF>0.98/115VAC at full load | | | | | | | | | | | | |
| INPUT | EFFICIENCY (Typ.) | 75% 78% 78% | | | | | | | | | | | | |
| | AC CURRENT (Typ.) | 1.5A/115VAC 0.75A/230VAC | | | | | | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START ≦40A/230V | | | | | | | | | | | | |
| | LEAKAGE CURRENT | <3.5mA / 240VAC | | | | | | | | | | | | |
| | 01/501 040 | 105 ~ 150% rated output power | | | | | | | | | | | | |
| | OVERLOAD | Protection type : Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | | |
| PROTECTION | OVER VOLTAGE | CH1:5.75 ~ 6.75V CH2:3.8 ~ 4.4V CH1:5.75 ~ 6.75V CH2:13.8 ~ 16.2V CH1:5.75 ~ 6.75V CH2:17.25 ~ 20.25V | | | | | | | | | | | | |
| | OVERVOLINGE | Protection type: Shut down o/p voltage, re-power on to recover | | | | | | | | | | | | |
| OVER TEMPERATURE(OPTION) Shut down o/p voltage, recovers automatically aft | | | | | | | | e goes dov | vn | | | | | |
| | WORKING TEMP. | -10 ~ +60°C (Refer to "Derating Curve") | | | | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -20 ~ +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 UL60950-1, TUV EN60950-1 approved | | | | | | | | | | | | |
| | SAFETY STANDARDS | | | | | 2.0 EKV/AC | | | | | | | | |
| SAFETY & | WITHSTAND VOLTAGE | | | P-FG:2KVA | | | | | | | | | | |
| EMC (Note 4) | EMC EMISSION | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | | | | |
| (14010 4) | EMC IMMUNITY | Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A | | | | | | | | | | | | |
| | MTBF | | | | | | | | | | | | | |
| OTHERS | DIMENSION | 139.9K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | | |
| | PACKING | 199*99*50mm (L*W*H) 0.87Kg; 20pcs/18.4Kg/1.28CUFT | | | | | | | | | | | | |
| NOTE | All parameters NOT special Ripple & noise are measure Tolerance: includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p | ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on late with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) under low input voltages. Please check the derating curve for more details. | | | | | | | | | | | | |









■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Free air cooling convection
- Fixed switching frequency at 100KHz
- 3 years warranty

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SPECIFICATION

| MODEL | | QP-100B | | | | QP-100C | | | | | | | |
|-------------|---|---|--------------|-----------|----------|----------------|----------|-----------|----------|--|--|--|--|
| | OUTPUT NUMBER | CH1 | CH2 | CH3 | CH4 | CH1 | CH2 | CH3 | CH4 | | | | |
| | DC VOLTAGE | 5V | 12V | -12V | -5V | 5V | 15V | -15V | -5V | | | | |
| | RATED CURRENT | 10A | 3A | 1A | 0.6A | 10A | 2.2A | 1A | 0.6A | | | | |
| | CURRENT RANGE | 2 ~ 10A | 0.3 ~ 4A | 0.15 ~ 1A | 0 ~ 1A | 2 ~ 10A | 0.3 ~ 3A | 0.15 ~ 1A | 0 ~ 1A | | | | |
| | RATED POWER (max.) | 101W | | <u>'</u> | | 101W | | | | | | | |
| OUTDUT | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 150mVp-p | 150mVp-p | 100mVp-p | 100mVp-p | 150mVp-p | 150mVp-p | 100mVp-p | | | | |
| OUTPUT | VOLTAGE ADJ. RANGE | CH1:4.75 ~ 5.5\ | 1 | | | CH1:4.75 ~ 5.5 | V | | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±3.0% | ±6.0% | +10,-6% | ±5.0% | ±3.0% | +6,-10% | ±8.0% | ±5.0% | | | | |
| | LINE REGULATION | ±1.0% | ±2.0% | ±2.0% | ±1.0% | ±1.0% | ±2.0% | ±2.0% | ±1.0% | | | | |
| | LOAD REGULATION | ±2.0% | ±6.0% | ±6.0% | ±2.0% | ±2.0% | ±2.0% | ±6.0% | ±2.0% | | | | |
| | SETUP, RISE TIME | 1000ms, 50ms | at full load | | | | | | | | | | |
| | HOLD UP TIME (Typ.) | 24ms at full load | d | | | | | | | | | | |
| | VOLTAGE RANGE Note.5 | 11 11 11 11 11 11 11 11 11 11 11 11 11 | | | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.95/230VAC PF>0.98/115VAC at full load | | | | | | | | | | | |
| INPUT | EFFICIENCY (Typ.) | 76% 77% | | | | | | | | | | | |
| | AC CURRENT (Typ.) | 1.5A/115VAC 0.75A/230VAC | | | | | | | | | | | |
| | INRUSH CURRENT (Typ.) | COLD START 40A | | | | | | | | | | | |
| | LEAKAGE CURRENT | <3.5mA/240VAC | | | | | | | | | | | |
| | OVER OAR | 105 ~ 135% rated output power | | | | | | | | | | | |
| | OVERLOAD | Protection type: Hiccup mode, recovers automatically after fault condition is removed | | | | | | | | | | | |
| PROTECTION | OVER VOLTACE | CH1:5.75 ~ 6.75V | | | | | | | | | | | |
| | OVER VOLTAGE | Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | | | | |
| | OVER TEMPERATURE(OPTION) | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | | | |
| | WORKING TEMP. | -10 ~ +60 °C (Refer to "Derating Curve") | | | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -20 ~ +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 | UL60950-1, TUV EN60950-1 approved | | | | | | | | | | | |
| SAFETY & | WITHSTAND VOLTAGE | | I/P-FG:2KVA | | | | | | | | | | |
| EMC | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH | | | | | | | | | | | |
| (Note 4) | EMC EMISSION | Compliance to EN55022 (CISPR22) 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 | | | | | | | | | | | | |
| | MTBF | 139.9K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | | | |
| OTHERS | DIMENSION | 199*99*50mm (L*W*H) | | | | | | | | | | | |
| | PACKING | 1.1Kg; 20pcs/22Kg/1.28CUFT | | | | | | | | | | | |
| NOTE | Ripple & noise are measure Tolerance: includes set up The power supply is consid a 360mm*360mm metal pla perform these EMC tests, p | All parameters NOT specially mentioned are measured at 230VAC input, rated load and $25^{\circ}C$ of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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) Derating may be needed under low input voltages. Please check the derating curve for more details. | | | | | | | | | | | |



