



# 375W Quad Output with PFC Function

# QP-375 series



### Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- CH3,4 are isolated from other outputs and the polarity can be reversed
- No minimum load requirement for CH2,3,4
- All output can be adjustable from -5~+10%
- With power good and fail signal output
- Built-in remote ON-OFF control
- Fixed switching frequency at 100KHz
- 3 years warranty



### SPECIFICATION

| MODEL                 |  | QP-375-5A   |              |              |              | QP-375-5B                   |              |              |         | QP-375-5C   |              |              |              |
|-----------------------|--|---|--------------|--------------|--------------|-----------------------------|--------------|--------------|---------|-------------|--------------|--------------|--------------|
| OUTPUT                | OUTPUT NUMBER  | CH1   | CH2          | CH3          | CH4          | CH1                         | CH2          | CH3          | CH4     | CH1         | CH2          | CH3          | CH4          |
|                       | DC VOLTAGE   | +5V   | +12V         | 12V          | 12V          | +5V                         | +12V         | 12V          | 5V      | +5V         | +12V         | 15V          | 15V          |
|                       | RATED CURRENT  | 30A   | 10A          | 6A           | 3A           | 30A                         | 10A          | 6A           | 3A      | 30A         | 9A           | 4A           | 4A           |
|                       | CURRENT RANGE  | 3.5 ~ 40A   | 0 ~ 16A      | 0 ~ 6A       | 0 ~ 3A       | 3.5 ~ 40A                   | 0 ~ 16A      | 0 ~ 6A       | 0 ~ 3A  | 3.5 ~ 40A   | 0 ~ 16A      | 0 ~ 4A       | 0 ~ 4A       |
|                       | RATED POWER(max.)  | 378W  |              |              |              | 357W                        |              |              |         | 378W        |              |              |              |
|                       | RIPPLE & NOISE (max.) Note.2   | 100mVp-p  | 150mVp-p     | 150mVp-p     | 50mVp-p      | 100mVp-p                    | 120mVp-p     | 120mVp-p     | 50mVp-p | 100mVp-p    | 150mVp-p     | 150mVp-p     | 240mVp-p     |
|                       | VOLTAGE ADJ. RANGE   | 4.75 ~ 5.5V   | 11.4 ~ 13.2V | 11.4 ~ 13.2V | 11.4 ~ 13.2V | 4.75 ~ 5.5V                 | 11.4 ~ 13.2V | 11.4 ~ 13.2V | -----   | 4.75 ~ 5.5V | 11.4 ~ 13.2V | 14.3 ~ 16.5V | 14.3 ~ 16.5V |
|                       | VOLTAGE TOLERANCE Note.3   | ±1.0%   | ±1.0%        | ±1.0%        | ±1.0%        | ±1.0%                       | ±1.0%        | ±1.0%        | ±1.0%   | ±1.0%       | ±1.0%        | ±1.0%        | ±1.0%        |
|                       | LINE REGULATION  | ±0.5%   | ±0.5%        | ±0.5%        | ±0.5%        | ±0.5%                       | ±0.5%        | ±0.5%        | ±0.5%   | ±0.5%       | ±0.5%        | ±0.5%        | ±0.5%        |
|                       | LOAD REGULATION  | ±0.8%   | ±0.8%        | ±0.8%        | ±0.8%        | ±0.8%                       | ±0.8%        | ±0.8%        | ±0.8%   | ±0.8%       | ±0.8%        | ±0.8%        | ±0.8%        |
|                       | SETUP, RISE TIME   | 800ms, 50ms at full load  |              |              |              |                             |              |              |         |             |              |              |              |
| HOLD UP TIME (Typ.)   | 36ms at full load  |   |              |              |              |                             |              |              |         |             |              |              |              |
| INPUT                 | VOLTAGE RANGE Note.6   | 85 ~ 264VAC   |              | 120 ~ 370VDC |              |                             |              |              |         |             |              |              |              |
|                       | FREQUENCY RANGE  | 47 ~ 63Hz   |              |              |              |                             |              |              |         |             |              |              |              |
|                       | POWER FACTOR (Typ.)  | PF>0.95/230VAC  |              |              |              | PF>0.98/115VAC at full load |              |              |         |             |              |              |              |
|                       | EFFICIENCY (Typ.)  | 77%   |              |              |              |                             | 77%          |              |         |             | 77%          |              |              |
|                       | AC CURRENT (Typ.)  | 6A/115VAC   |              | 3A/230VAC    |              |                             |              |              |         |             |              |              |              |
|                       | INRUSH CURRENT (Typ.)  | COLD START 45A  |              |              |              |                             |              |              |         |             |              |              |              |
|                       | LEAKAGE CURRENT  | <2mA / 240VAC   |              |              |              |                             |              |              |         |             |              |              |              |
| PROTECTION            | OVERLOAD   | 105 ~ 135% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |              |              |              |                             |              |              |         |             |              |              |              |
|                       | OVER VOLTAGE   | CH1:5.75 ~ 6.75V<br>Protection type : Shut down o/p voltage, re-power on to recover                                     |              |              |              |                             |              |              |         |             |              |              |              |
|                       | OVER TEMPERATURE   | Shut down o/p voltage, recovers automatically after temperature goes down   |              |              |              |                             |              |              |         |             |              |              |              |
| FUNCTION              | POWER GOOD / POWER FAIL(OPTIONAL)  | 10ms/1ms  |              |              |              |                             |              |              |         |             |              |              |              |
|                       | REMOTE CONTROL   | RC+/RC-:0 ~ 0.8V POWER ON; 4V ~ 10V POWER OFF   |              |              |              |                             |              |              |         |             |              |              |              |
| 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)  |              |              |              |                             |              |              |         |             |              |              |              |
|                       | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  |              |              |              |                             |              |              |         |             |              |              |              |
| SAFETY & EMC (Note 7) | SAFETY STANDARDS   | UL60950-1, TUV EN60950-1 approved   |              |              |              |                             |              |              |         |             |              |              |              |
|                       | WITHSTAND VOLTAGE  | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC   |              |              |              |                             |              |              |         |             |              |              |              |
|                       | ISOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH  |              |              |              |                             |              |              |         |             |              |              |              |
|                       | EMC EMISSION   | Compliance to 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   | 75.9K hrs min. MIL-HDBK-217F (25°C)   |              |              |              |                             |              |              |         |             |              |              |              |
|                       | DIMENSION  | 280*127*63.5mm (L*W*H)  |              |              |              |                             |              |              |         |             |              |              |              |
|                       | PACKING  | 2.4Kg; 6pcs/14.8Kg/0.89CUFT   |              |              |              |                             |              |              |         |             |              |              |              |
| 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. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Peak current can not exceed 60 sec.</li> <li>5. Isolated CH3 &amp; CH4 maybe series connected or can be used as positive or negative outputs.</li> <li>6. Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>7. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>8. 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).</li> </ol> |   |              |              |              |                             |              |              |         |             |              |              |              |



■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- CH3,4 are isolated from other outputs and the polarity can be reversed
- No minimum load requirement for CH2,3,4
- All output can be adjustable from -5~+10%
- With power good and fail signal output
- Built-in remote ON-OFF control
- Fixed switching frequency at 100KHz
- 3 years warranty

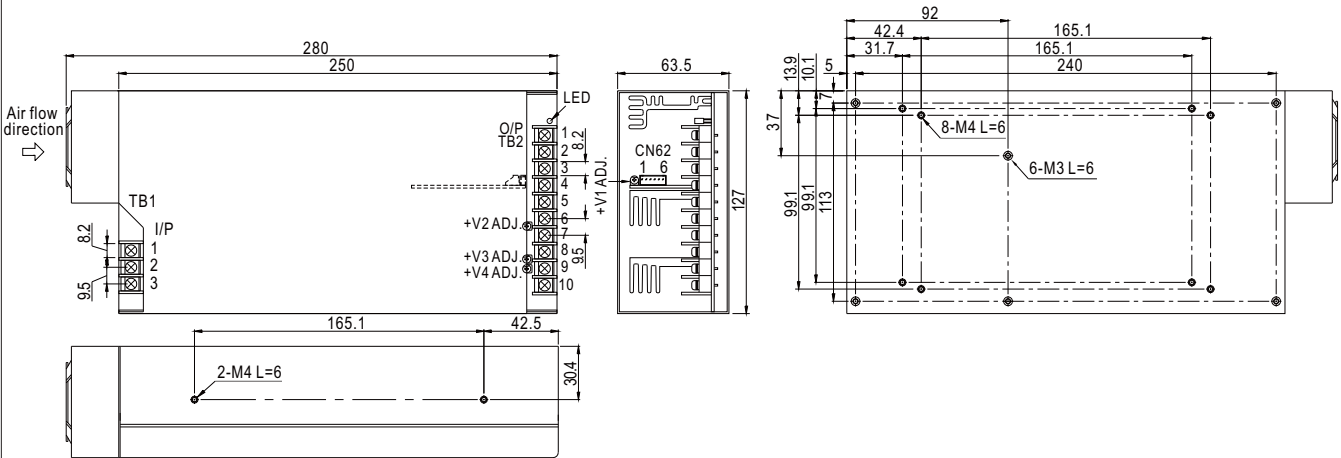


SPECIFICATION

| MODEL                 |  | QP-375-5D   |              |                             |              | QP-375-5E   |              |              |              |  |
|-----------------------|--|---|--------------|-----------------------------|--------------|-------------|--------------|--------------|--------------|--|
| OUTPUT                | OUTPUT NUMBER  | CH1   | CH2          | CH3                         | CH4          | CH1         | CH2          | CH3          | CH4          |  |
|                       | DC VOLTAGE   | +5V   | +12V         | 12V                         | 24V          | +5V         | +12V         | 24V          | 24V          |  |
|                       | RATED CURRENT  | 30A   | 9A           | 4A                          | 3A           | 30A         | 9A           | 3A           | 2A           |  |
|                       | CURRENT RANGE  | 3.5 ~ 40A   | 0 ~ 16A      | 0 ~ 6A                      | 0 ~ 3A       | 3.5 ~ 40A   | 0 ~ 16A      | 0 ~ 4A       | 0 ~ 3A       |  |
|                       | RATED POWER(max.)  | 378W  |              |                             |              | 378W        |              |              |              |  |
|                       | RIPPLE & NOISE (max.) Note.2   | 100mVp-p  | 120mVp-p     | 120mVp-p                    | 240mVp-p     | 100mVp-p    | 120mVp-p     | 120mVp-p     | 240mVp-p     |  |
|                       | VOLTAGE ADJ. RANGE   | 4.75 ~ 5.5V   | 11.4 ~ 13.2V | 11.4 ~ 13.2V                | 22.8 ~ 26.4V | 4.75 ~ 5.5V | 11.4 ~ 13.2V | 22.8 ~ 26.4V | 22.8 ~ 26.4V |  |
|                       | VOLTAGE TOLERANCE Note.3   | ±1.0%   | ±1.0%        | ±1.0%                       | ±1.0%        | ±1.0%       | ±1.0%        | ±1.0%        | ±1.0%        |  |
|                       | LINE REGULATION  | ±0.5%   | ±0.5%        | ±0.5%                       | ±0.5%        | ±0.5%       | ±0.5%        | ±0.5%        | ±0.5%        |  |
|                       | LOAD REGULATION  | ±0.8%   | ±0.8%        | ±0.8%                       | ±0.8%        | ±0.8%       | ±0.8%        | ±0.8%        | ±0.8%        |  |
| SETUP, RISE TIME      | 800ms, 50ms at full load   |   |              |                             |              |             |              |              |              |  |
| HOLD UP TIME (Typ.)   | 36ms at full load  |   |              |                             |              |             |              |              |              |  |
| INPUT                 | VOLTAGE RANGE Note.6   | 85 ~ 264VAC   |              | 120 ~ 370VDC                |              |             |              |              |              |  |
|                       | FREQUENCY RANGE  | 47 ~ 63Hz   |              |                             |              |             |              |              |              |  |
|                       | POWER FACTOR (Typ.)  | PF>0.95/230VAC  |              | PF>0.98/115VAC at full load |              |             |              |              |              |  |
|                       | EFFICIENCY (Typ.)  | 78%   |              |                             |              | 78%         |              |              |              |  |
|                       | AC CURRENT (Typ.)  | 6A/115VAC   |              | 3A/230VAC                   |              |             |              |              |              |  |
|                       | INRUSH CURRENT (Typ.)  | COLD START 45A  |              |                             |              |             |              |              |              |  |
|                       | LEAKAGE CURRENT  | <2mA / 240VAC   |              |                             |              |             |              |              |              |  |
| PROTECTION            | OVERLOAD   | 105 ~ 135% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |              |                             |              |             |              |              |              |  |
|                       | OVER VOLTAGE   | CH1: 5.75 ~ 6.75V<br>Protection type : Shut down o/p voltage, re-power on to recover                                    |              |                             |              |             |              |              |              |  |
|                       | OVER TEMPERATURE   | Shut down o/p voltage, recovers automatically after temperature goes down   |              |                             |              |             |              |              |              |  |
| FUNCTION              | POWER GOOD / POWER FAIL(OPTIONAL)  | 10ms/1ms  |              |                             |              |             |              |              |              |  |
|                       | REMOTE CONTROL   | RC+/RC-: 0 ~ 0.8V POWER ON; 4V ~ 10V POWER OFF  |              |                             |              |             |              |              |              |  |
| 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)  |              |                             |              |             |              |              |              |  |
|                       | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  |              |                             |              |             |              |              |              |  |
| SAFETY & EMC (Note 7) | SAFETY STANDARDS   | UL60950-1, TUV EN60950-1 approved   |              |                             |              |             |              |              |              |  |
|                       | WITHSTAND VOLTAGE  | I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC  |              |                             |              |             |              |              |              |  |
|                       | ISOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC / 25°C / 70% RH   |              |                             |              |             |              |              |              |  |
|                       | EMC EMISSION   | Compliance to 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   | 75.9K hrs min. MIL-HDBK-217F (25°C)   |              |                             |              |             |              |              |              |  |
|                       | DIMENSION  | 280*127*63.5mm (L*W*H)  |              |                             |              |             |              |              |              |  |
|                       | PACKING  | 2.4Kg; 6pcs/14.8Kg/0.89CUFT   |              |                             |              |             |              |              |              |  |
| 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. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Peak current can not exceed 60 sec.</li> <li>5. Isolated CH3 &amp; CH4 maybe series connected or can be used as positive or negative outputs.</li> <li>6. Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>7. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>8. 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).</li> </ol> |   |              |                             |              |             |              |              |              |  |

**Mechanical Specification**

Case No. 927A Unit:mm



**AC Input Terminal Pin No. Assignment**

| Pin No. | Assignment |
|---------|------------|
| 1       | AC/L       |
| 2       | AC/N       |
| 3       | FG         |

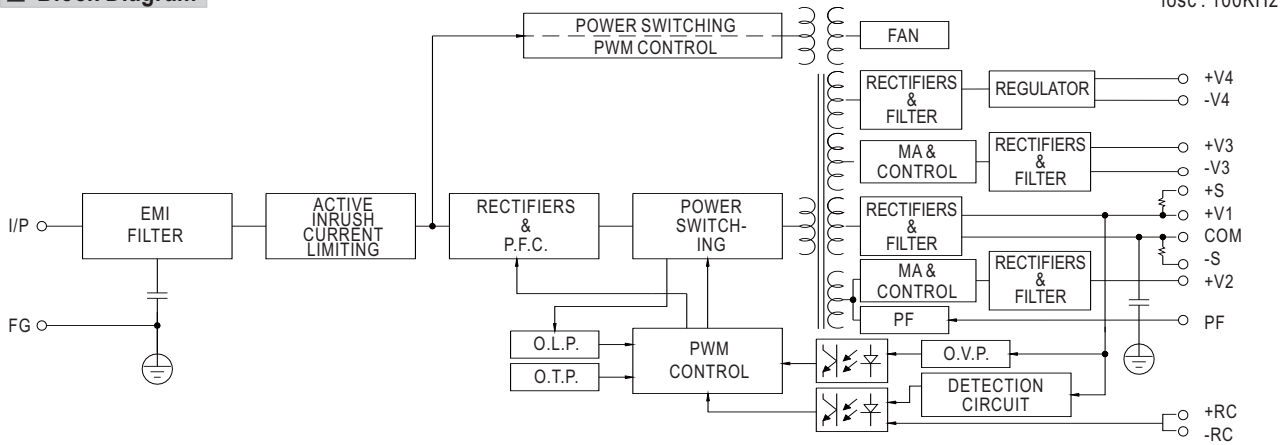
**DC Output Terminal Pin No. Assignment**

| Pin No. | Assignment     | Pin No. | Assignment |
|---------|----------------|---------|------------|
| 1,2     | +V1            | 8       | -V3        |
| 3,4,5   | COM(V1 and V2) | 9       | +V4        |
| 6       | +V2            | 10      | -V4        |
| 7       | +V3            |         |            |

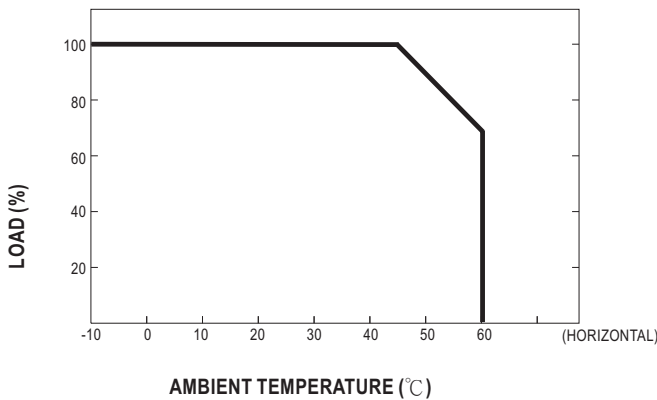
CN62 Pin No. Assignment : JST S6B-XH or equivalent

| Pin No. | Assignment                   | Mating Housing        | Terminal                        |
|---------|------------------------------|-----------------------|---------------------------------|
| 1       | PF(Power good / Fail signal) | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2       | GND                          |                       |                                 |
| 3       | RS-                          |                       |                                 |
| 4       | RS+                          |                       |                                 |
| 5       | RC-                          |                       |                                 |
| 6       | RC+                          |                       |                                 |

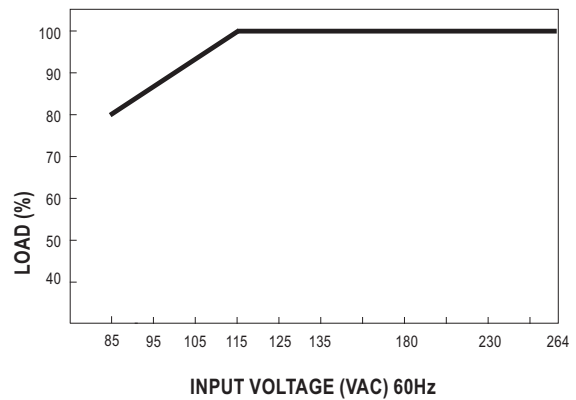
**Block Diagram**



**Derating Curve**



**Output Derating VS Input Voltage**





■ Features :

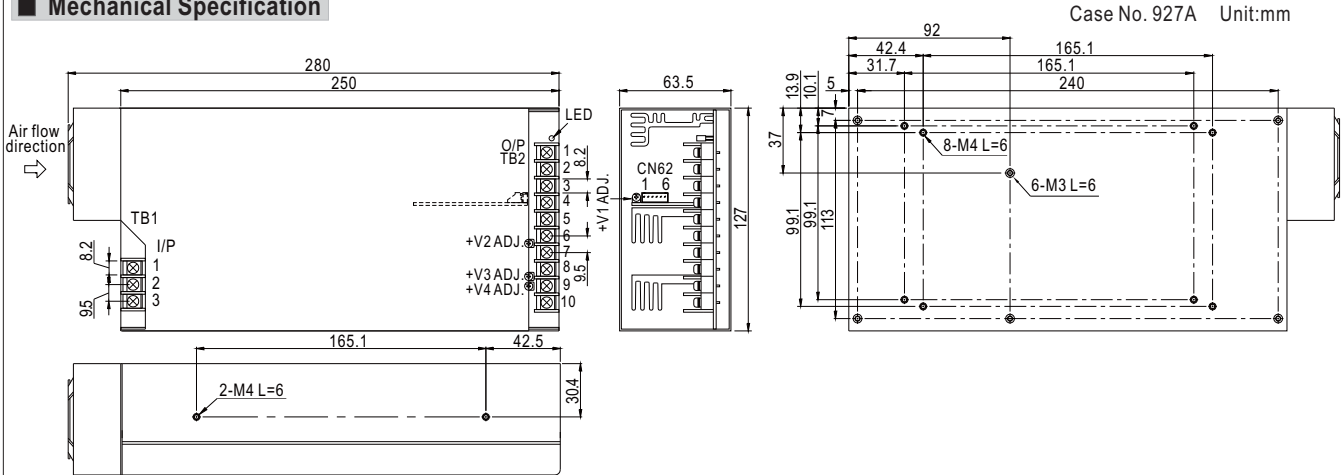
- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- CH3,4 are isolated from other outputs and the polarity can be reversed
- No minimum load requirement for CH2,3,4
- All output can be adjustable from -5~+10%
- With power good and fail signal output
- Built-in remote ON-OFF control
- Fixed switching frequency at 100KHz
- 3 years warranty



SPECIFICATION

| MODEL                 |  | QP-375-24B  |            |                             |              | QP-375-24C   |            |              |              |  |
|-----------------------|--|---|------------|-----------------------------|--------------|--------------|------------|--------------|--------------|--|
| OUTPUT                | OUTPUT NUMBER  | CH1   | CH2        | CH3                         | CH4          | CH1          | CH2        | CH3          | CH4          |  |
|                       | DC VOLTAGE   | +24V  | +5V        | 12V                         | 12V          | +24V         | +5V        | 15V          | 15V          |  |
|                       | RATED CURRENT  | 10A   | 10A        | 4A                          | 4A           | 10A          | 10A        | 4A           | 4A           |  |
|                       | CURRENT RANGE  | 1 ~ 10A   | 0 ~ 16A    | 0 ~ 4A                      | 0 ~ 4A       | 1 ~ 10A      | 0 ~ 10A    | 0 ~ 4A       | 0 ~ 4A       |  |
|                       | RATED POWER(max.)  | 386W  |            |                             |              | 410W         |            |              |              |  |
|                       | RIPPLE & NOISE (max.) Note.2   | 240mVp-p  | 50mVp-p    | 120mVp-p                    | 120mVp-p     | 240mVp-p     | 50mVp-p    | 150mVp-p     | 150mVp-p     |  |
|                       | VOLTAGE ADJ. RANGE   | 21.6 ~ 26.4V  | 4.5 ~ 5.5V | 10.8 ~ 13.2V                | 10.8 ~ 13.2V | 21.6 ~ 26.4V | 4.5 ~ 5.5V | 13.5 ~ 16.5V | 13.5 ~ 16.5V |  |
|                       | VOLTAGE TOLERANCE Note.3   | ±1.0%   | ±1.0%      | ±1.0%                       | ±1.0%        | ±1.0%        | ±1.0%      | ±1.0%        | ±1.0%        |  |
|                       | LINE REGULATION  | ±0.5%   | ±0.5%      | ±0.5%                       | ±0.5%        | ±0.5%        | ±0.5%      | ±0.5%        | ±0.5%        |  |
|                       | LOAD REGULATION  | ±0.8%   | ±0.8%      | ±0.8%                       | ±0.8%        | ±0.8%        | ±0.8%      | ±0.8%        | ±0.8%        |  |
|                       | SETUP, RISE TIME   | 800ms, 50ms at full load  |            |                             |              |              |            |              |              |  |
| HOLD UP TIME (Typ.)   | 36ms at full load  |   |            |                             |              |              |            |              |              |  |
| INPUT                 | VOLTAGE RANGE Note.6   | 85 ~ 264VAC   |            | 120 ~ 370VDC                |              |              |            |              |              |  |
|                       | FREQUENCY RANGE  | 47 ~ 63Hz   |            |                             |              |              |            |              |              |  |
|                       | POWER FACTOR (Typ.)  | PF>0.95/230VAC  |            | PF>0.98/115VAC at full load |              |              |            |              |              |  |
|                       | EFFICIENCY (Typ.)  | 78%   |            |                             |              | 80%          |            |              |              |  |
|                       | AC CURRENT (Typ.)  | 6A/115VAC   |            | 3A/230VAC                   |              |              |            |              |              |  |
|                       | INRUSH CURRENT (Typ.)  | COLD START 45A  |            |                             |              |              |            |              |              |  |
|                       | LEAKAGE CURRENT  | <2mA / 240VAC   |            |                             |              |              |            |              |              |  |
| PROTECTION            | OVERLOAD   | 105 ~ 135% rated output power<br>Protection type : Hiccup mode, recovers automatically after condition is removed |            |                             |              |              |            |              |              |  |
|                       | OVER VOLTAGE   | CH1:27.6 ~ 32.4V<br>Protection type : Shut down o/p voltage, re-power on to recover                               |            |                             |              |              |            |              |              |  |
|                       | OVER TEMPERATURE   | Shut down o/p voltage, recovers automatically after temperature goes down   |            |                             |              |              |            |              |              |  |
| FUNCTION              | POWER GOOD / POWER FAIL(OPTIONAL)  | 10ms/1ms  |            |                             |              |              |            |              |              |  |
|                       | REMOTE CONTROL   | RC+/RC-:0 ~ 0.8V POWER ON; 4V ~ 10V POWER OFF   |            |                             |              |              |            |              |              |  |
| 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)  |            |                             |              |              |            |              |              |  |
|                       | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes  |            |                             |              |              |            |              |              |  |
| SAFETY & EMC (Note 7) | SAFETY STANDARDS   | UL60950-1, TUV EN60950-1 approved   |            |                             |              |              |            |              |              |  |
|                       | WITHSTAND VOLTAGE  | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC   |            |                             |              |              |            |              |              |  |
|                       | ISOLATION RESISTANCE   | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH  |            |                             |              |              |            |              |              |  |
|                       | EMC EMISSION   | Compliance to 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   | 75.9K hrs min. MIL-HDBK-217F (25°C)   |            |                             |              |              |            |              |              |  |
|                       | DIMENSION  | 280*127*63.5mm (L*W*H)  |            |                             |              |              |            |              |              |  |
|                       | PACKING  | 2.4Kg; 6pcs/14.8Kg/0.89CUFT   |            |                             |              |              |            |              |              |  |
| 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. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>4. Peak current can not exceed 60 sec.</li> <li>5. Isolated CH3 &amp; CH4 maybe series connected or can be used as positive or negative outputs.</li> <li>6. Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>7. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>8. 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).</li> </ol> |   |            |                             |              |              |            |              |              |  |

**Mechanical Specification**



**AC Input Terminal Pin No. Assignment**

| Pin No. | Assignment |
|---------|------------|
| 1       | AC/L       |
| 2       | AC/N       |
| 3       | FG         |

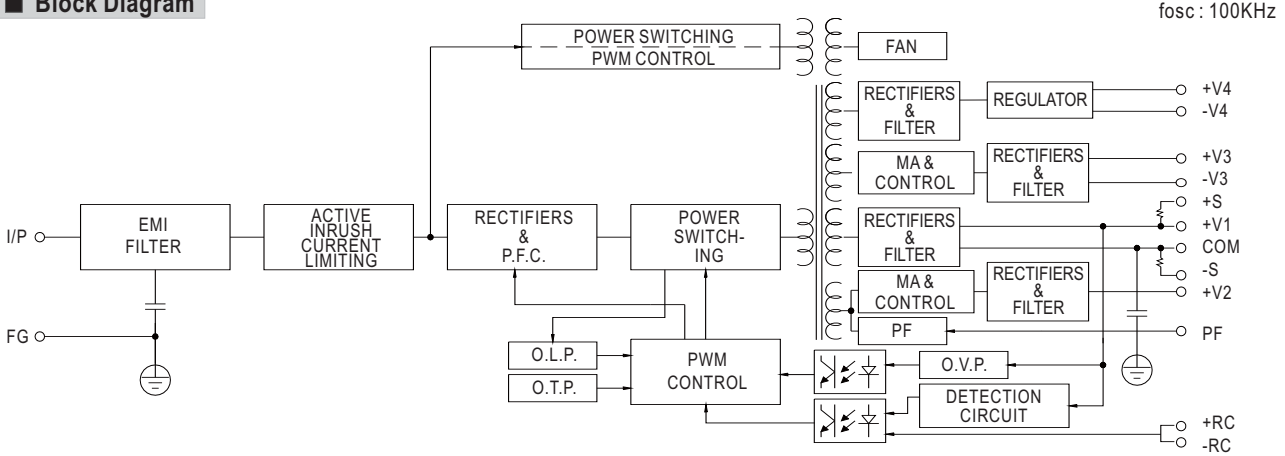
**DC Output Terminal Pin No. Assignment**

| Pin No. | Assignment     | Pin No. | Assignment |
|---------|----------------|---------|------------|
| 1,2     | +V1            | 8       | -V3        |
| 3,4,5   | COM(V1 and V2) | 9       | +V4        |
| 6       | +V2            | 10      | -V4        |
| 7       | +V3            |         |            |

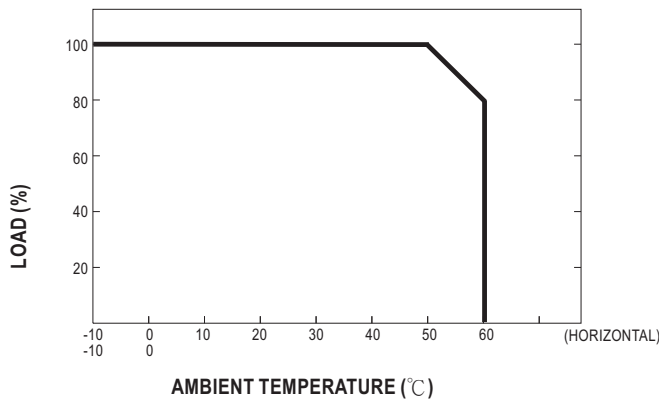
**CN62 Pin No. Assignment : JST S6B-XH or equivalent**

| Pin No. | Assignment                   | Mating Housing        | Terminal                        |
|---------|------------------------------|-----------------------|---------------------------------|
| 1       | PF(Power good / Fail signal) | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2       | GND                          |                       |                                 |
| 3       | RS-                          |                       |                                 |
| 4       | RS+                          |                       |                                 |
| 5       | RC-                          |                       |                                 |
| 6       | RC+                          |                       |                                 |

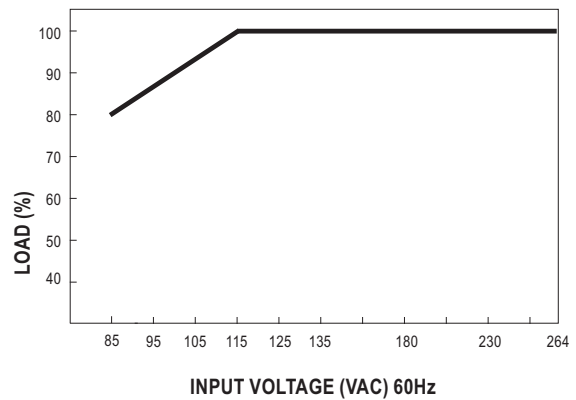
**Block Diagram**



**Derating Curve**

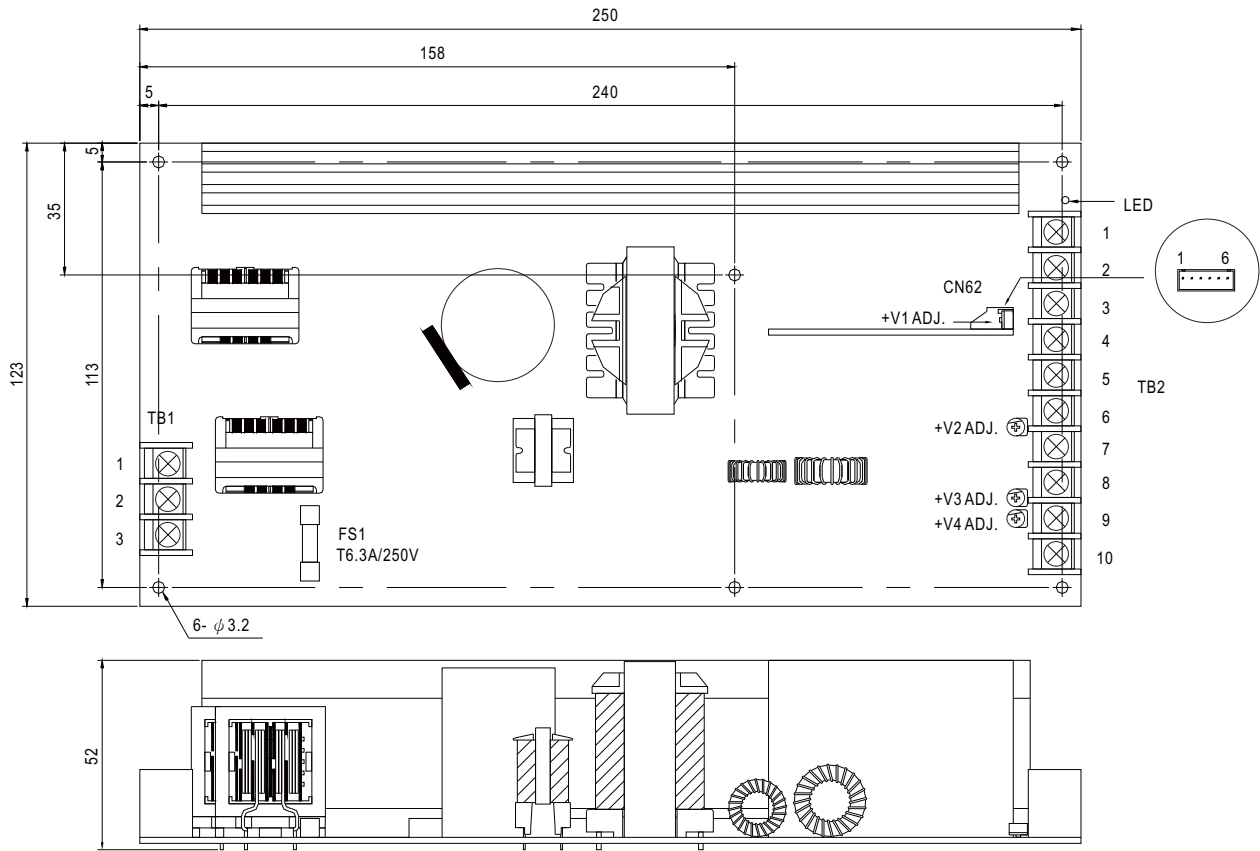


**Output Derating VS Input Voltage**



**Mechanical Specification**

Unit:mm



**AC Input Terminal Pin No. Assignment**

| Pin No. | Assignment |
|---------|------------|
| 1       | AC/L       |
| 2       | AC/N       |
| 3       | FG $\perp$ |

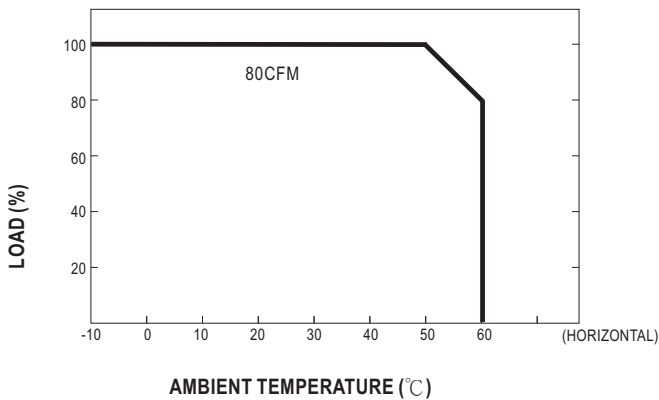
**DC Output Terminal Pin No. Assignment**

| Pin No. | Assignment     | Pin No. | Assignment |
|---------|----------------|---------|------------|
| 1,2     | +V1            | 8       | -V3        |
| 3,4,5   | COM(V1 and V2) | 9       | +V4        |
| 6       | +V2            | 10      | -V4        |
| 7       | +V3            |         |            |

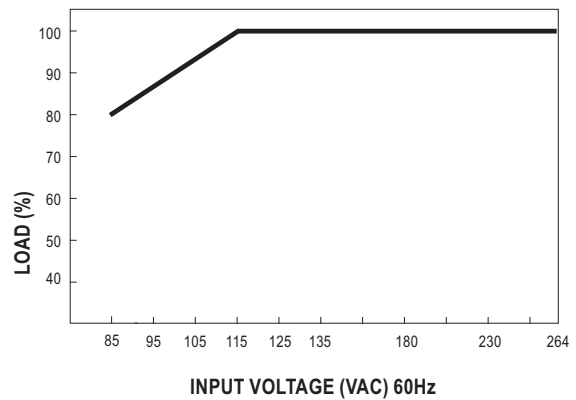
**CN62 Pin No. Assignment : JST S6B-XH or equivalent**

| Pin No. | Assignment                   | Mating Housing        | Terminal                        |
|---------|------------------------------|-----------------------|---------------------------------|
| 1       | PF(Power good / Fail signal) | JST XHP or equivalent | JST SXH-001T-P0.6 or equivalent |
| 2       | GND                          |                       |                                 |
| 3       | RS-                          |                       |                                 |
| 4       | RS+                          |                       |                                 |
| 5       | RC-                          |                       |                                 |
| 6       | RC+                          |                       |                                 |

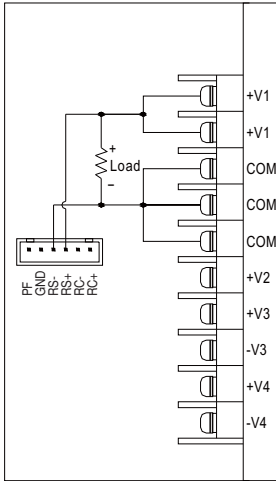
**Derating Curve**



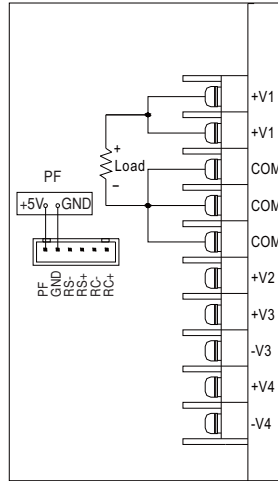
**Output Derating VS Input Voltage**



Control terminal instruction manual

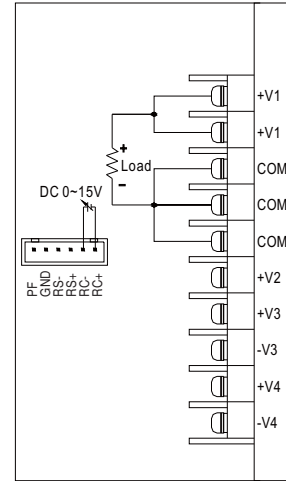


Remote Sensing



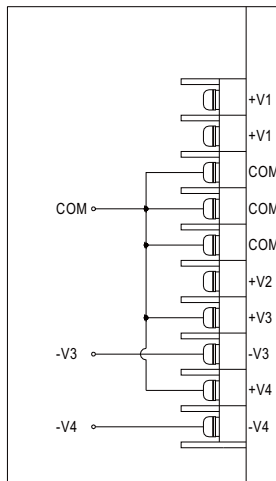
Power Fail Signal

PF Signal is the voltage difference between "GND" and "PF" pin output

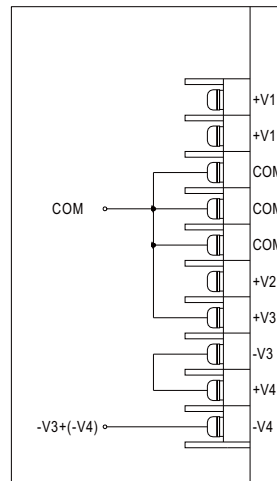


Power Fail Signal

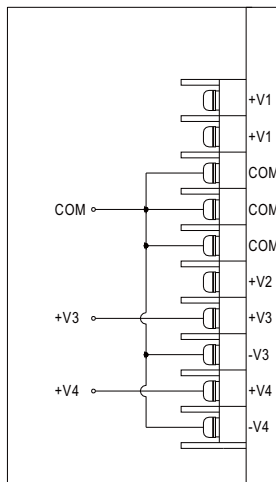
Power ON: When VRC+, RC-=0 ~ 0.8V or Open  
Power OFF: When VRC+, RC-=4 ~ 10V



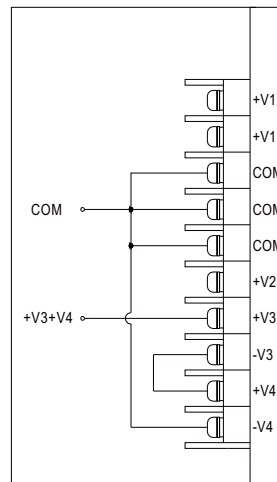
V3, V4 All Negative(-)



V3 Puls Negative(-)



V3, V4 All Positive(+)



V3 Plus V4 Positive(+)