



#### ■ Features :

- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 30mm
- Remote ON-OFF control
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

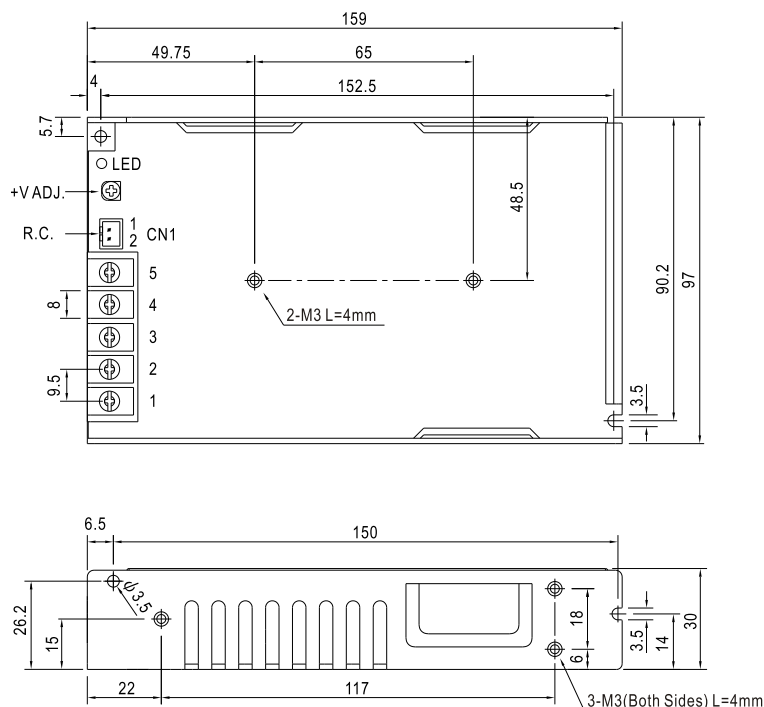


#### SPECIFICATION

| MODEL                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | RSP-75-3.3                                                                                                                            | RSP-75-5    | RSP-75-7.5    | RSP-75-12    | RSP-75-13.5    | RSP-75-15     | RSP-75-24    | RSP-75-27     | RSP-75-48    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|--------------|----------------|---------------|--------------|---------------|--------------|
| OUTPUT                   | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.3V                                                                                                                                  | 5V          | 7.5V          | 12V          | 13.5V          | 15V           | 24V          | 27V           | 48V          |
|                          | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 15A                                                                                                                                   | 15A         | 10A           | 6.3A         | 5.6A           | 5A            | 3.2A         | 2.8A          | 1.6A         |
|                          | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0 ~ 15A                                                                                                                               | 0 ~ 15A     | 0 ~ 10A       | 0 ~ 6.3A     | 0 ~ 5.6A       | 0 ~ 5A        | 0 ~ 3.2A     | 0 ~ 2.8A      | 0 ~ 1.6A     |
|                          | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 49.5W                                                                                                                                 | 75W         | 75W           | 75.6W        | 75.6W          | 75W           | 76.8W        | 75.6W         | 76.8W        |
|                          | RIPPLE & NOISE (max.) Note.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 80mVp-p                                                                                                                               | 80mVp-p     | 80mVp-p       | 120mVp-p     | 120mVp-p       | 120mVp-p      | 120mVp-p     | 120mVp-p      | 200mVp-p     |
|                          | VOLTAGE ADJ. RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.14 ~ 3.63V                                                                                                                          | 4.75 ~ 5.5V | 7.13 ~ 8.25V  | 11.4 ~ 13.2V | 12.8 ~ 14.9V   | 14.3 ~ 16.5V  | 22.8 ~ 26.4V | 25.7 ~ 29.7V  | 45.6 ~ 52.8V |
|                          | VOLTAGE TOLERANCE Note.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ± 2.0%                                                                                                                                | ± 2.0%      | ± 2.0%        | ± 2.0%       | ± 2.0%         | ± 2.0%        | ± 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%       |
|                          | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ± 1.0%                                                                                                                                | ± 1.0%      | ± 1.0%        | ± 0.5%       | ± 0.5%         | ± 0.5%        | ± 0.5%       | ± 0.5%        | ± 0.5%       |
|                          | SETUP, RISE TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 600ms, 30ms at full load                                                                                                              |             |               |              |                |               |              |               |              |
| HOLD UP TIME (Typ.)      | 16ms at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                       |             |               |              |                |               |              |               |              |
| INPUT                    | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 85 ~ 264VAC      120 ~ 370VDC                                                                                                         |             |               |              |                |               |              |               |              |
|                          | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 47 ~ 63Hz                                                                                                                             |             |               |              |                |               |              |               |              |
|                          | POWER FACTOR (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PF>0.93/230VAC      PF>0.98/115VAC at full load                                                                                       |             |               |              |                |               |              |               |              |
|                          | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 76%                                                                                                                                   | 82%         | 84%           | 85%          | 85%            | 86%           | 87%          | 88%           | 89%          |
|                          | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.9A/115VAC      0.5A/230VAC                                                                                                          |             |               |              |                |               |              |               |              |
|                          | INRUSH CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COLD START 35A/230VAC                                                                                                                 |             |               |              |                |               |              |               |              |
|                          | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <2mA / 240VAC                                                                                                                         |             |               |              |                |               |              |               |              |
| PROTECTION               | OVERLOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 105 ~ 135% rated output power<br>Protection type : Constant current limiting, recovers automatically after fault condition is removed |             |               |              |                |               |              |               |              |
|                          | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3.63 ~ 4.46V                                                                                                                          | 5.5 ~ 6.75V | 8.25 ~ 10.13V | 13.2 ~ 16.2V | 14.85 ~ 18.23V | 16.5 ~ 20.25V | 26.4 ~ 32.4V | 29.7 ~ 36.45V | 52.8 ~ 64.8V |
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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                 | REMOTE CONTROL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CN1: < 0~0.8VDC POWER ON , 4~10VDC POWER OFF                                                                                          |             |               |              |                |               |              |               |              |
| ENVIRONMENT              | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -25 ~ +70°C (Refer to "Derating Curve")                                                                                               |             |               |              |                |               |              |               |              |
|                          | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20 ~ 90% RH non-condensing                                                                                                            |             |               |              |                |               |              |               |              |
|                          | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -40 ~ +85°C, 10 ~ 95% RH                                                                                                              |             |               |              |                |               |              |               |              |
|                          | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ± 0.05%/°C (0 ~ 50°C)                                                                                                                 |             |               |              |                |               |              |               |              |
|                          | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes                                                                          |             |               |              |                |               |              |               |              |
| SAFETY & EMC<br>(Note 4) | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, CCC GB4943 approved                                                                |             |               |              |                |               |              |               |              |
|                          | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I/P-O/P: 3.75KVAC    I/P-FG: 2KVAC    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 EN55022 (CISPR22) Class B, EN61000-3-2,-3, GB9254 class B                                                               |             |               |              |                |               |              |               |              |
|                          | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A                                                     |             |               |              |                |               |              |               |              |
| OTHERS                   | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 296.7K hrs min.      MIL-HDBK-217F (25°C)                                                                                             |             |               |              |                |               |              |               |              |
|                          | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 159*97*30mm (L*W*H)                                                                                                                   |             |               |              |                |               |              |               |              |
|                          | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.44Kg; 30pcs/14.2Kg/0.91CUFT                                                                                                         |             |               |              |                |               |              |               |              |
| NOTE                     | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."<br>(as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) |                                                                                                                                       |             |               |              |                |               |              |               |              |

## ■ Mechanical Specification

Case No.227A Unit:mm



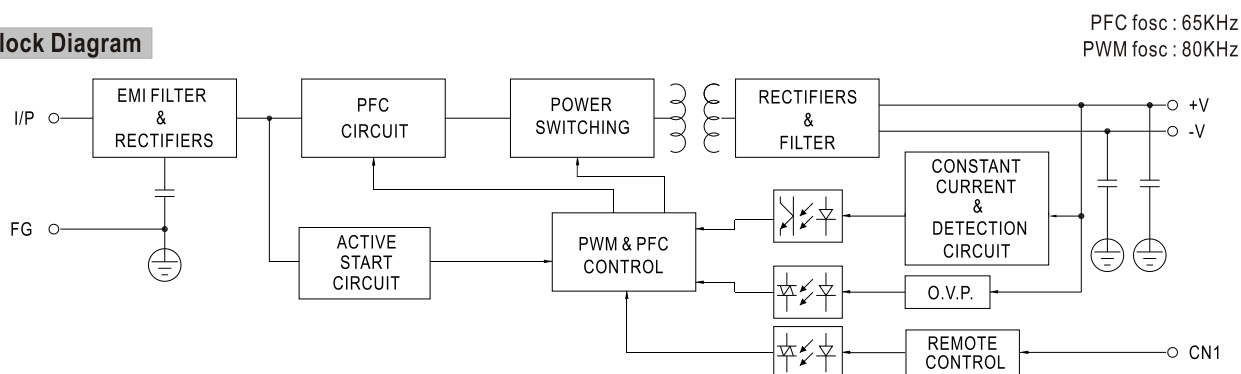
### Terminal Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment   |
|---------|------------|---------|--------------|
| 1       | AC/L       | 4       | DC OUTPUT -V |
| 2       | AC/N       | 5       | DC OUTPUT +V |
| 3       | FG $\perp$ |         |              |

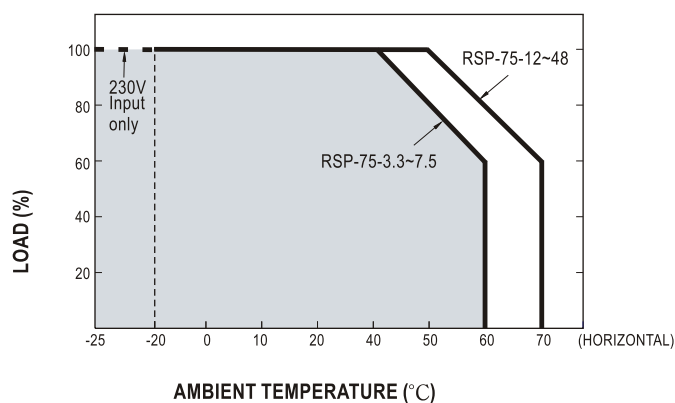
Remote ON/OFF(CN1): JST S2B-XH or equivalent(optional)

| Pin No. | Assignment | Mating Housing           | Terminal                           |
|---------|------------|--------------------------|------------------------------------|
| 1       | RC+        | JST XHP<br>or equivalent | JST SXH-001T-P0.6<br>or equivalent |
| 2       | RC-        |                          |                                    |

### ■ Block Diagram



### Derating Curve



### ■ Output Derating VS Input Voltage

