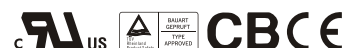




- Features :
  - Universal AC input / Full range
  - Protections: Short circuit / Overload / Over voltage
  - Cooling by free air convection
  - LED indicator for power on
  - 100% full load burn-in test
  - All using 105 long life electrolytic capacitors
  - Withstand 300VAC surge input for 5 second
  - High operating temperature up to 70
  - Withstand 5G vibration test
  - High efficiency, long life and high reliability
  - 3 years warranty

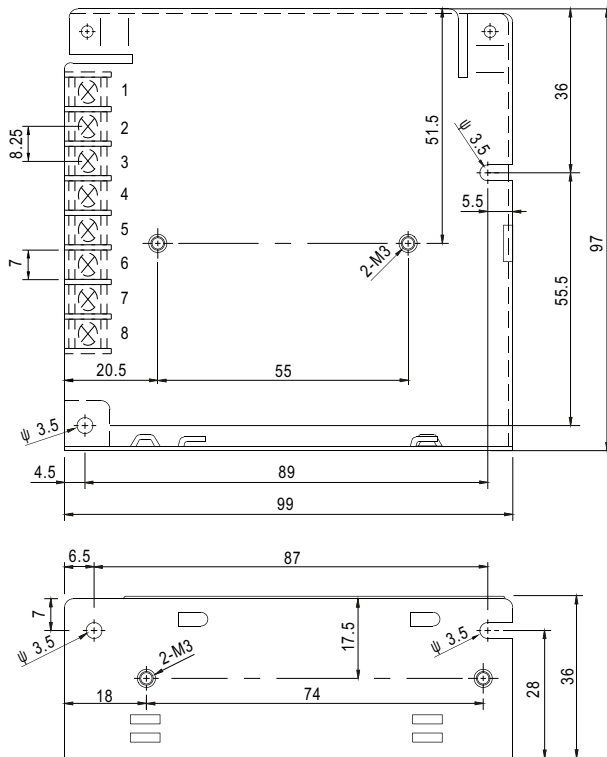


## SPECIFICATION

| MODEL                 |                              | RT-50A                                                                                            |            |          | RT-50B                                                         |            |          | RT-50C           |          |          | RT-50D           |            |          |
|-----------------------|------------------------------|---------------------------------------------------------------------------------------------------|------------|----------|----------------------------------------------------------------|------------|----------|------------------|----------|----------|------------------|------------|----------|
| OUTPUT                | OUTPUT NUMBER                | CH1                                                                                               | CH2        | CH3      | CH1                                                            | CH2        | CH3      | CH1              | CH2      | CH3      | CH1              | CH2        | CH3      |
|                       | DC VOLTAGE                   | 5V                                                                                                | 12V        | -5V      | 5V                                                             | 12V        | -12V     | 5V               | 15V      | -15V     | 5V               | 24V        | 12V      |
|                       | RATED CURRENT                | 4A                                                                                                | 2A         | 0.5A     | 4A                                                             | 2A         | 0.5A     | 4A               | 1.5A     | 0.5A     | 3A               | 1A         | 1A       |
|                       | CURRENT RANGE                | 0.5 ~ 5A                                                                                          | 0.2 ~ 2.5A | 0.1 ~ 1A | 0.5 ~ 5A                                                       | 0.2 ~ 2.5A | 0.1 ~ 1A | 0.5 ~ 5A         | 0.2 ~ 2A | 0.1 ~ 1A | 0.5 ~ 5A         | 0.2 ~ 1.5A | 0.1 ~ 1A |
|                       | RATED POWER                  | 46.5W                                                                                             |            |          | 50W                                                            |            |          | 50W              |          |          | 51W              |            |          |
|                       | RIPPLE & NOISE (max.) Note.2 | 80mVp-p                                                                                           | 120mVp-p   | 100mVp-p | 80mVp-p                                                        | 120mVp-p   | 120mVp-p | 80mVp-p          | 120mVp-p | 120mVp-p | 80mVp-p          | 150mVp-p   | 120mVp-p |
|                       | VOLTAGE ADJ. RANGE           | CH1: 4.75 ~ 5.5V                                                                                  |            |          | CH1: 4.75 ~ 5.5V                                               |            |          | CH1: 4.75 ~ 5.5V |          |          | CH1: 4.75 ~ 5.5V |            |          |
|                       | VOLTAGE TOLERANCE Note.3     | ± 2.0%                                                                                            | ± 6.0%     | ± 3.0%   | ± 2.0%                                                         | ± 6.0%     | ± 3.0%   | ± 2.0%           | +8,-4%   | ± 3.0%   | ± 2.0%           | +8,-4%     | ± 6.0%   |
|                       | LINE REGULATION Note.4       | ± 0.5%                                                                                            | ± 1.5%     | ± 0.5%   | ± 0.5%                                                         | ± 1.5%     | ± 0.5%   | ± 0.5%           | ± 1.5%   | ± 0.5%   | ± 0.5%           | ± 2.0%     | ± 2.0%   |
|                       | LOAD REGULATION Note.5       | ± 1.0%                                                                                            | ± 3.0%     | ± 1.0%   | ± 1.0%                                                         | ± 3.0%     | ± 1.0%   | ± 1.0%           | ± 3.0%   | ± 1.0%   | ± 1.0%           | ± 3.0%     | ± 4.0%   |
| INPUT                 | SETUP, RISE TIME             | 500ms, 20ms/230VAC                                                                                |            |          | 1200ms, 30ms/115VAC                                            |            |          | at full load     |          |          |                  |            |          |
|                       | HOLD UP TIME (Typ.)          | 60ms/230VAC                                                                                       |            |          | 10ms/115VAC                                                    |            |          | at full load     |          |          |                  |            |          |
|                       | VOLTAGE RANGE                | 88 ~ 264VAC                                                                                       |            |          | 125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage) |            |          |                  |          |          |                  |            |          |
|                       | FREQUENCY RANGE              | 47 ~ 63Hz                                                                                         |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | EFFICIENCY (Typ.)            | 77%                                                                                               |            |          | 77%                                                            |            |          | 78%              |          |          | 80%              |            |          |
|                       | AC CURRENT (Typ.)            | 1.3A/115VAC                                                                                       |            |          | 0.8A/230VAC                                                    |            |          |                  |          |          |                  |            |          |
| PROTECTION            | INRUSH CURRENT (Typ.)        | COLD START 36A/230VAC                                                                             |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | LEAKAGE CURRENT              | <2mA / 240VAC                                                                                     |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | OVERLOAD                     | 110 ~ 150% rated output power                                                                     |            |          |                                                                |            |          |                  |          |          |                  |            |          |
| ENVIRONMENT           | OVER VOLTAGE                 | CH1: 5.75 ~ 6.75V                                                                                 |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | WORKING TEMP.                | -25 ~ +70 (Refer to "Derating Curve")                                                             |            |          |                                                                |            |          |                  |          |          |                  |            |          |
| SAFETY & EMC (Note 6) | WORKING HUMIDITY             | 20 ~ 90% RH non-condensing                                                                        |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | STORAGE TEMP., HUMIDITY      | -40 ~ +85 , 10 ~ 95% RH                                                                           |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | TEMP. COEFFICIENT            | ± 0.03%/ (0 ~ 50 ) on +5V output                                                                  |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | VIBRATION                    | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes                           |            |          |                                                                |            |          |                  |          |          |                  |            |          |
| OTHERS                | 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 / 70% RH                                          |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | EMC EMISSION                 | Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3                                           |            |          |                                                                |            |          |                  |          |          |                  |            |          |
| NOTE                  | EMC IMMUNITY                 | Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | MTBF                         | 169.2Khrs min. MIL-HDBK-217F (25 )                                                                |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       | DIMENSION                    | 99*97*36mm (L*W*H)                                                                                |            |          |                                                                |            |          |                  |          |          |                  |            |          |
| PACKING               |                              | 0.41Kg; 45pcs/19.5Kg/0.9CUFT                                                                      |            |          |                                                                |            |          |                  |          |          |                  |            |          |
|                       |                              |                                                                                                   |            |          |                                                                |            |          |                  |          |          |                  |            |          |

### Mechanical Specification

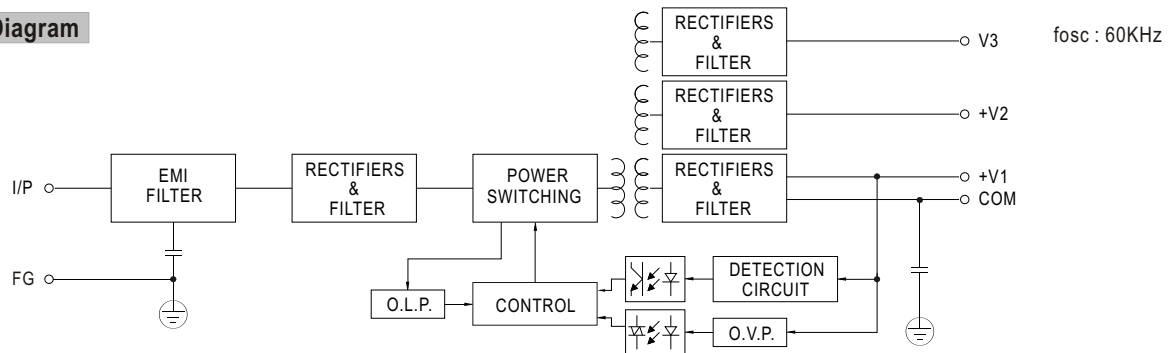
Case No. 905B Unit:mm



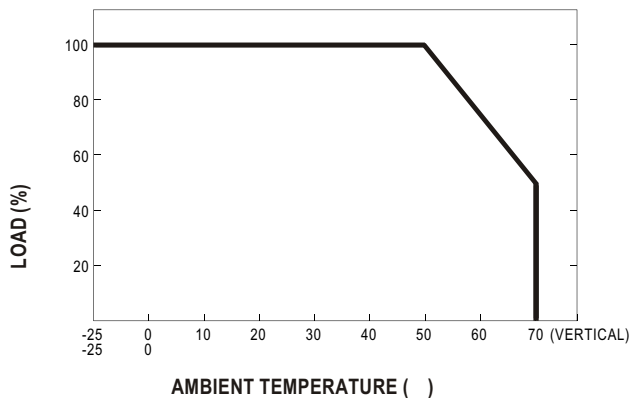
Terminal Pin No. Assignment

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

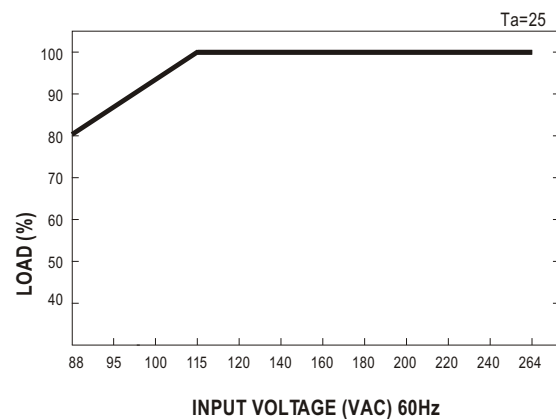
### Block Diagram



### Derating Curve



### Output Derating VS Input Voltage



# AMEYA360

## Components Supply Platform

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