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## Features :

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



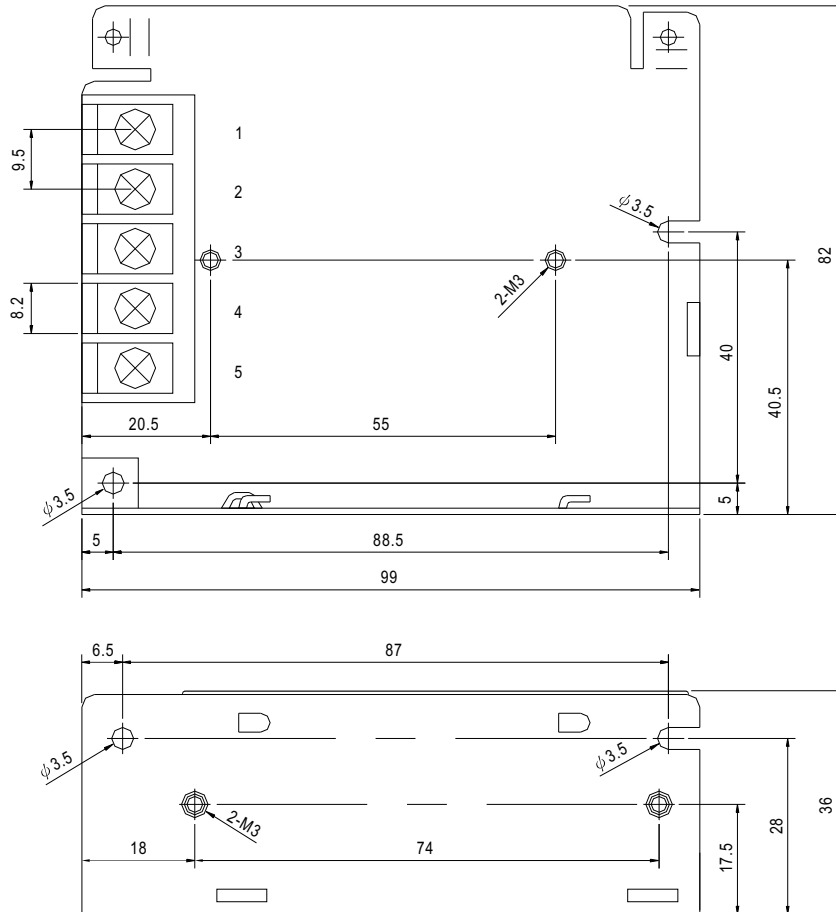
## SPECIFICATION

| MODEL                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | RS-35-3.3                                                                                                                                                                                         | RS-35-5    | RS-35-12     | RS-35-15     | RS-35-24   | RS-35-48 |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|--------------|------------|----------|
| OUTPUT                                  | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.3V                                                                                                                                                                                              | 5V         | 12V          | 15V          | 24V        | 48V      |
|                                         | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7A                                                                                                                                                                                                | 7A         | 3A           | 2.4A         | 1.5A       | 0.8A     |
|                                         | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0 ~ 7A                                                                                                                                                                                            | 0 ~ 7A     | 0 ~ 3A       | 0 ~ 2.4A     | 0 ~ 1.5A   | 0 ~ 0.8A |
|                                         | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23.1W                                                                                                                                                                                             | 35W        | 36W          | 36W          | 36W        | 38.4W    |
|                                         | RIPPLE & NOISE (max.) <small>Note.2</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 80mVp-p                                                                                                                                                                                           | 80mVp-p    | 120mVp-p     | 120mVp-p     | 120mVp-p   | 200mVp-p |
|                                         | VOLTAGE ADJ. RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.9V ~ 3.6V                                                                                                                                                                                       | 4.5 ~ 5.5V | 10.8 ~ 13.2V | 13.5 ~ 16.5V | 22 ~ 27.6V | 42 ~ 54V |
|                                         | VOLTAGE TOLERANCE <small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±3.0%                                                                                                                                                                                             | ±2.0%      | ±1.0%        | ±1.0%        | ±1.0%      | ±1.0%    |
|                                         | LINE REGULATION <small>Note.4</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ±0.5%                                                                                                                                                                                             | ±0.5%      | ±0.5%        | ±0.5%        | ±0.5%      | ±0.5%    |
|                                         | LOAD REGULATION <small>Note.5</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ±2.0%                                                                                                                                                                                             | ±1.0%      | ±0.5%        | ±0.5%        | ±0.5%      | ±0.5%    |
|                                         | SETUP, RISE TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 500ms, 30ms/230VAC      1200ms, 30ms/115VAC at full load                                                                                                                                          |            |              |              |            |          |
| HOLD TIME (Typ.)                        | 80ms/230VAC      15ms/115VAC at full load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                   |            |              |              |            |          |
| INPUT                                   | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 88 ~ 264VAC      125 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)                                                                                                                   |            |              |              |            |          |
|                                         | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 47 ~ 63Hz                                                                                                                                                                                         |            |              |              |            |          |
|                                         | EFFICIENCY(Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 73%                                                                                                                                                                                               | 77%        | 81%          | 83%          | 84%        | 84%      |
|                                         | AC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.8A/115VAC      0.55A/230VAC                                                                                                                                                                     |            |              |              |            |          |
|                                         | INRUSH CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | COLD START 36A/230VAC                                                                                                                                                                             |            |              |              |            |          |
|                                         | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <2mA / 240VAC                                                                                                                                                                                     |            |              |              |            |          |
| PROTECTION                              | OVER LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 110 ~ 150% rated output power<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed                                                                           |            |              |              |            |          |
|                                         | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3.8 ~ 4.45V      5.75 ~ 6.75V      13.8 ~ 16.2V      17.25 ~ 20.25V      27.6 ~ 32.4V      55.2 ~ 64.8V<br>Protection type : Hiccup mode, recovers automatically after fault condition is removed |            |              |              |            |          |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                   |            |              |              |            |          |
| ENVIRONMENT                             | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -25 ~ +70℃ (Refer to output load derating curve)                                                                                                                                                  |            |              |              |            |          |
|                                         | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20 ~ 90% RH non-condensing                                                                                                                                                                        |            |              |              |            |          |
|                                         | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40 ~ +85℃, 10 ~ 95% RH                                                                                                                                                                           |            |              |              |            |          |
|                                         | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ±0.03%/℃ (0 ~ 50℃)                                                                                                                                                                                |            |              |              |            |          |
|                                         | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes                                                                                                                           |            |              |              |            |          |
| SAFETY & EMC<br><small>(Note 6)</small> | 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                                                                                                                                                          |            |              |              |            |          |
|                                         | EMI CONDUCTION & RADIATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Compliance to EN55022 (CISPR22) Class B                                                                                                                                                           |            |              |              |            |          |
|                                         | HARMONIC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Compliance to EN61000-3-2,-3                                                                                                                                                                      |            |              |              |            |          |
| OTHERS                                  | EMS IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-6-2 (EN50082-2) heavy industry level, criteria A                                                                                        |            |              |              |            |          |
|                                         | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 249Khrs min.    MIL-HDBK-217F (25℃)                                                                                                                                                               |            |              |              |            |          |
|                                         | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 99*82*36mm (L*W*H)                                                                                                                                                                                |            |              |              |            |          |
|                                         | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.3Kg; 45pcs/14Kg/0.83CUFT                                                                                                                                                                        |            |              |              |            |          |
| NOTE                                    | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. Line regulation is measured from low line to high line at rated load.<br>5. Load regulation is measured from 0% to 100% rated load.<br>6. 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. |                                                                                                                                                                                                   |            |              |              |            |          |

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## Mechanical Specification

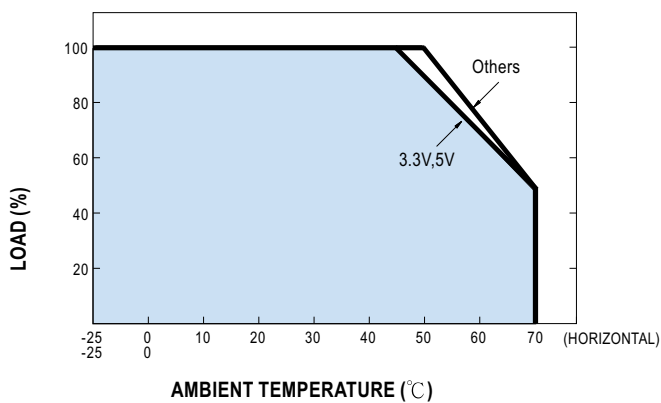
Case No. 932A Unit:mm



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 $\perp$ |         |              |

## Output Derating



## Static Characteristics (24V)

