

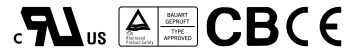
## 35W Single Output Switching Power Supply

## RS-35 series



### ■ 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.) Note.2            | 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 Note.3                | ±3.0%   | ±2.0%        | ±1.0%        | ±1.0%          | ±1.0%        | ±1.0%        |
|                       | LINE REGULATION Note.4                  | ±0.5%   | ±0.5%        | ±0.5%        | ±0.5%          | ±0.5%        | ±0.5%        |
|                       | LOAD REGULATION Note.5                  | ±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 |
| ENVIRONMENT           | WORKING TEMP.                           | -25 ~ +70°C (Refer to output load derating curve)   |              |              |                |              |              |
|                       | WORKING HUMIDITY                        | 20 ~ 90% RH non-condensing  |              |              |                |              |              |
|                       | STORAGE TEMP., HUMIDITY                 | -40 ~ +85°C, 10 ~ 95% RH  |              |              |                |              |              |
|                       | TEMP. COEFFICIENT                       | ±0.03%/°C (0 ~ 50°C)  |              |              |                |              |              |
|                       | VIBRATION                               | 10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes   |              |              |                |              |              |
| SAFETY & EMC (Note 6) | 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                | EMTBF                                   | 249Khrs min.    MIL-HDBK-217F (25°C)  |              |              |                |              |              |
|                       | DIMENSION                               | 99*82*36mm (L*W*H)  |              |              |                |              |              |
|                       | PACKING                                 | 0.3Kg; 45pcs/14Kg/0.83CUFT  |              |              |                |              |              |
|                       | 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. Line regulation is measured from low line to high line at rated load.</li> <li>5. Load regulation is measured from 0% to 100% rated load.</li> <li>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.</li> </ol> |              |              |                |              |              |

