



■ Features :

- AC input range selectable by switch
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 83KHz
- 2 years warranty

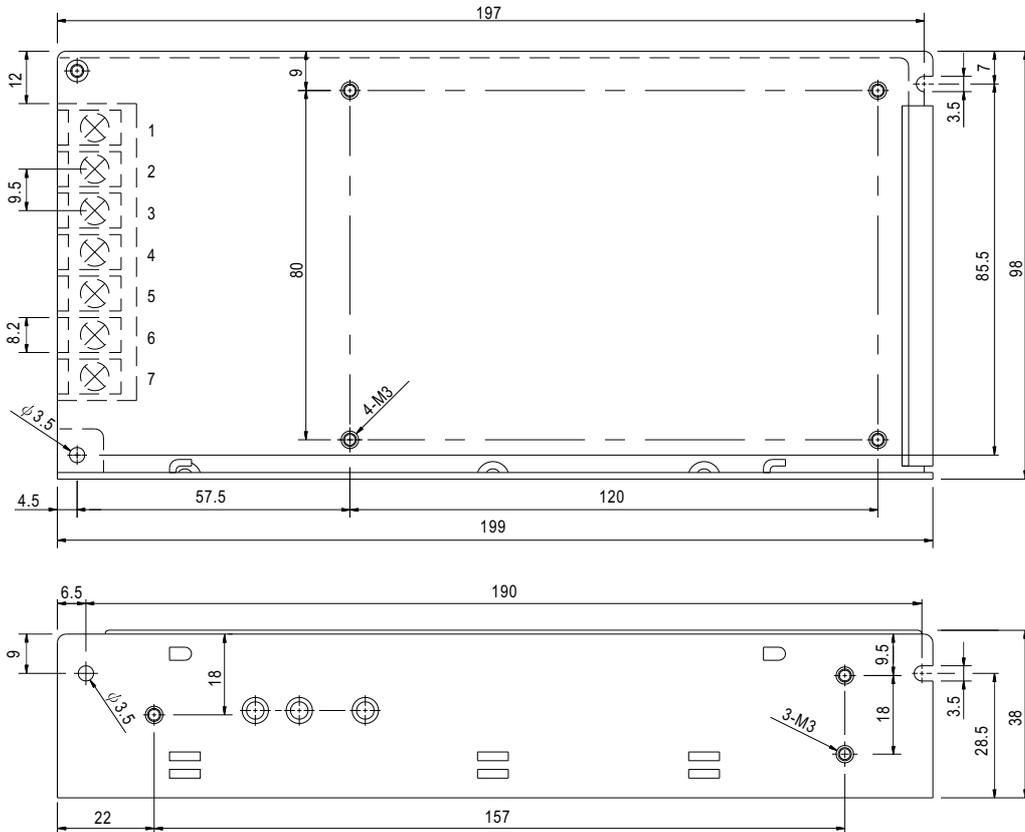


**SPECIFICATION**

| MODEL                 | S-100F-5   | S-100F-7.5  | S-100F-12     | S-100F-15            | S-100F-24      | S-100F-48      |              |
|-----------------------|--|---|---------------|----------------------|----------------|----------------|--------------|
| OUTPUT                | DC VOLTAGE   | 5V  | 7.5V          | 12V                  | 15V            | 24V            | 48V          |
|                       | RATED CURRENT  | 20A   | 13.5A         | 8.5A                 | 6.7A           | 4.5A           | 2.2A         |
|                       | CURRENT RANGE  | 0 ~ 20A   | 0 ~ 13.5A     | 0 ~ 8.5A             | 0 ~ 6.7A       | 0 ~ 4.5A       | 0 ~ 2.2A     |
|                       | RATED POWER  | 100W  | 101W          | 102W                 | 100.5W         | 108W           | 105.6W       |
|                       | RIPPLE & NOISE (max.) Note.2   | 100mVp-p  | 125mVp-p      | 125mVp-p             | 125mVp-p       | 150mVp-p       | 150mVp-p     |
|                       | VOLTAGE ADJ. RANGE   | 4.5 ~ 5.5V  | 6.75 ~ 8.25V  | 10.8 ~ 13.2V         | 13.5 ~ 16.5V   | 21.6 ~ 26.4V   | 43.2 ~ 52.8V |
|                       | VOLTAGE TOLERANCE Note.3   | ±2.0%   | ±1.0%         | ±1.0%                | ±1.0%          | ±1.0%          | ±1.0%        |
|                       | LINE REGULATION  | ±0.5%   | ±0.5%         | ±0.5%                | ±0.5%          | ±0.5%          | ±0.5%        |
|                       | LOAD REGULATION  | ±1.0%   | ±0.5%         | ±0.5%                | ±0.5%          | ±0.5%          | ±0.5%        |
|                       | SETUP, RISE TIME   | 1000ms, 30ms at full load   |               |                      |                |                |              |
| HOLD TIME (Typ.)      | 20ms at full load  |   |               |                      |                |                |              |
| INPUT                 | VOLTAGE RANGE  | 88 ~ 132VAC/176 ~ 264VAC selected by jumper or switch                                       |               |                      |                |                | 248 ~ 370VDC |
|                       | FREQUENCY RANGE  | 47 ~ 63Hz   |               |                      |                |                |              |
|                       | EFFICIENCY (Typ.)  | 76%   | 78%           | 80%                  | 81%            | 83%            | 84%          |
|                       | AC CURRENT (Typ.)  | 3.15A/115VAC  |               | 1.5A/230VAC          |                |                |              |
|                       | INRUSH CURRENT (Typ.)  | COLD START 20A/115VAC   |               | 40A/230VAC           |                |                |              |
|                       | LEAKAGE CURRENT  | <1mA/ 240VAC  |               |                      |                |                |              |
| PROTECTION            | OVER LOAD  | 105 ~ 150% rated output power   |               |                      |                |                |              |
|                       |  | Protection type : Hiccup mode, recovers automatically after fault condition is removed      |               |                      |                |                |              |
|                       | OVER VOLTAGE   | 5.75 ~ 6.75V  | 8.63 ~ 10.13V | 13.8 ~ 16.2V         | 17.25 ~ 20.25V | 27.6 ~ 32.4V   | 55.2 ~ 64.8V |
|                       |  | Protection type : Hiccup mode, recovers automatically after fault condition is removed      |               |                      |                |                |              |
| ENVIRONMENT           | WORKING TEMP.  | -10 ~ +60°C (Refer to output load derating curve)   |               |                      |                |                |              |
|                       | WORKING HUMIDITY   | 20 ~ 90% RH non-condensing  |               |                      |                |                |              |
|                       | STORAGE TEMP., HUMIDITY  | -20 ~ +85°C, 10 ~ 95% RH  |               |                      |                |                |              |
|                       | TEMP. COEFFICIENT  | ±0.03%/°C (0 ~ 50°C)  |               |                      |                |                |              |
|                       | VIBRATION  | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes                                |               |                      |                |                |              |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS   | CSA60950-1 (for 24V only), UL1012, 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  |               |                      |                |                |              |
|                       | EMS IMMUNITY   | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A |               |                      |                |                |              |
| OTHERS                | MTBF   | 314.9K hrs min.   |               | MIL-HDBK-217F (25°C) |                |                |              |
|                       | DIMENSION  | 199*98*38mm (L*W*H)   |               |                      |                |                |              |
|                       | PACKING  | 0.65Kg; 20pcs/14.2Kg/0.8CUFT  |               |                      |                |                |              |
| NOTE                  | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>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.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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.</p> |   |               |                      |                |                |              |

■ Mechanical Specification

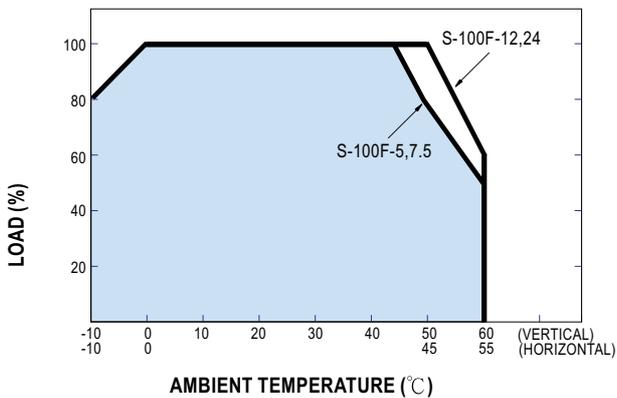
Case No. 902 Unit:mm



Terminal Pin. No Assignment

| Pin No. | Assignment | Pin No. | Assignment   |
|---------|------------|---------|--------------|
| 1       | AC/L       | 4,5     | DC OUTPUT -V |
| 2       | AC/N       | 6,7     | DC OUTPUT +V |
| 3       | FG         |         |              |

■ Derating Curve



■ Static Characteristics (24V)

