


**Features:**

- Constant voltage mode power supply
- Universal AC input / Full range
- Fully encapsulated with IP67 level
- Protections: Short circuit/Over current /Over Voltage
- Small and compact size
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- 2 years warranty

**SPECIFICATION:**

| MODEL        |                                | EV20F-12   | EV20F-24 |
|--------------|--------------------------------|--|----------|
| OUTPUT       | DC VOLTAGE                     | 12V  | 24V      |
|              | RATED CURRENT                  | 2A(Max)  | 1A(Max)  |
|              | CURRENT RANGE                  | 0~2A   | 0~1A     |
|              | RATED POWER                    | 24W  | 24W      |
|              | RIPPLE & NOISE (max.)          | 300mVp-p   |          |
|              | VOLTAGE TOLERANCE              | ±3.0%  |          |
|              | LINE REGULATION                | ±1.0%  |          |
|              | LOAD REGULATION                | ±2.0%  |          |
|              | SETUP,RISE TIME                | 500ms,250ms/230VAC 500ms,250ms/115ac at full load  |          |
|              | HOLD UP TIME (Typ.)            | 50ms/200VAC 24ms/100VAC at full load   |          |
| INPUT        | VOLTAGE RANGE                  | 90-264VAC  |          |
|              | FREQUENCY RANGE                | 47~63Hz  |          |
|              | EFFICIENCY (Typ.)              | 80%  | 82%      |
|              | AC CURRENT(at full load)       | 0.6A/100VAC  |          |
|              | INRUSH CURRENT (max.)          | COLD STAT 70A/240VAC 35A/120VAC at full load   |          |
|              | LEAKAGE CURRENT                | 0.25mA/240VAC  |          |
| PROTECTION   | OVER CURRENT/<br>SHORT CIRCUIT | Above 150% ~200%rated output power or short circuit.<br>Protection type: Hiccup mode, recovers automatically after fault condition is removed. |          |
|              | OVER VOLTAGE                   | Protection type: Hiccup mode, recovers automatically after fault condition is removed.   |          |
|              | OVER TEMPERATURE               | Tj 140°C typically(IC1) Detect on main control IC<br>Protection type: Hiccup mode, recovers automatically after temperature goes down          |          |
| ENVIRONMENT  | WORKING TEMP.                  | -10~50°C   |          |
|              | WORKING HUMIDITY               | 20~90% RH non-condensing   |          |
|              | STORAGE TEMP., HUMIDITY        | -40~80°C, 10~95% RH  |          |
|              | TEMP.COEFFICIENT               | ±0.03%/°C (0~50°C)   |          |
|              | VIBRATION                      | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y, Z axes   |          |
| SAFETY & EMC | SAFETY STANDARDS               | Compliance to EN61347-1,EN61347-2-13,meet IP67   |          |
|              | WITHSTAND VOLTAGE              | I/P-O/P:3KVAC  |          |
|              | ISOLATION RESISTANCE           | I/P-O/P:>100M Ohms / 500VDC / 25~70% RH  |          |
|              | EMI CONDUCTION & RADIATION     | Compliance to EN55022 (CISPR22) Class B  |          |

