15W Single Output Switching Power Supply

**Features:**
- AC input range selected by switch
- Protections: Short circuit/Over load
- Cooling by free air convection
- 100% full load burn-in
- Fixed switching frequency at 37kHz
- Low cost
- High reliability

**SPECIFICATION**

**MODEL**
- S-15-3
- S-15-12
- S-15-24

**OUTPUT**
- **DC VOLTAGE**
  - S-15-3: 9V, 12V, 24V
  - S-15-12: 9V, 12V, 24V
  - S-15-24: 9V, 12V, 24V
- **RATED CURRENT**
  - S-15-3: 0.7A
  - S-15-12: 1.3A
  - S-15-24: 2A
- **CURRENT RANGE**
  - 0 ~ 0.7A
- **RATED POWER**
  - S-15-3: 10W
  - S-15-12: 15W
  - S-15-24: 18W
- **Ripple & Noise (rms) @ 50/60Hz**
  - S-15-3: 50mVp-p
  - S-15-12: 50mVp-p
  - S-15-24: 100mVp-p
- **VOLTAGE ADJ. RANGE**
  - S-15-3: 4.75 ~ 5.25V
  - S-15-12: 10.8 ~ 13.2V
- **VOLTAGE TOLERANCE**
  - S-15-3: ±2.2%
  - S-15-12: ±1%
  - S-15-24: ±1%
- **LINE REGULATION**
  - S-15-3: ±5.5%
  - S-15-12: ±5.5%
  - S-15-24: ±5.5%
- **LOAD REGULATION**
  - S-15-3: ±15%
  - S-15-12: ±15%
  - S-15-24: ±15%
- **SETUP, RISE, HOLD TIME**
  - 200ms, 100ms, 30ms at full load
- **VOLTAGE RANGE**
  - Input: 85 ~ 125VAC/170 ~ 265VAC-selected by switch
  - Output: 24V ~ 37VDC
- **FREQUENCY RANGE**
  - 47 ~ 64Hz
- **EFFICIENCY (typ.)**
  - S-15-3: 95%
  - S-15-12: 95%
  - S-15-24: 72%
- **AC CURRENT**
  - S-15-3: 0.15A/15WAC
  - S-15-12: 0.25A/25WAC
- **INRUSH CURRENT (max.)**
  - S-15-3: 16A/15WAC
  - S-15-12: 30A/30WAC
- **LEAKAGE CURRENT**
  - S-15-3: <0.5mA/240VAC
  - S-15-12: <0.5mA/240VAC

**INPUT**
- **PROTECTION**
  - Over Load: 130 ~ 150% rated output power
  - Protection type: Fold-back current limiting, recovery automatically after fault condition is removed
- **WORKING TEMP.**
  - -10 ~ +60°C (Refer to input load declining curve)
- **HUMIDITY**
  - Operating: 20 ~ 90% RH non-condensing
  - Storage: 20 ~ 85% RH non-condensing
- **VIBRATION**
  - 10 ~ 550Hz, 25 g (rms)/4 cycles, period for 90min, each along X, Y, Z axis
- **SAFETY & EMC**
  - WITHSTAND VOLTAGE:
    - Input: 1500VAC
    - Output: 1500VAC
    - ISOLATION RESISTANCE:
    - Input: 1500V
    - Output: 1500V
    - EMI CONDUCTIVE & RADIATION:
      - Design refer to IEC 61000-6-3
- **MEASUREMENT & RADIATION**
  - DPF: 220mm x 25mm x 110mm
  - WEIGHT: 1.3kg
  - DIMENSION: 90x90x12 (HxWxD)
  - PACKING: 0.355kg per 500 pcs

**NOTE**
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 50/60Hz bandwidth with using a 12% limited peak-to-peak terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: Includes set up tolerance, line regulation and load regulation.