## 120W Single Output Switching Power Supply

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

### Specification

**MODEL**
- S-120-5
- S-120-7.5
- S-120-12
- S-120-15
- S-120-24
- S-120-48

**DC VOLTAGE**
- 5V 15V 24V 48V

**RATED CURRENT**
- 0.5A 1A 1.5A 2A 3A 5A

**RATED POWER**
- 120W

**RIPPLE & NOISE** (max.)
- 0.08% @ 120Khz

**VOLTAGE ADJ. RANGE**
- 5.5V - 6.5V

**VOLTAGE TOLERANCE**
- ±1.0% ±1.5% ±2.0%

**LINE REGULATION**
- ±0.5%

**LOAD REGULATION**
- ±1.0%

**SETUP, RISE TIME**
- 100ns (max.)

**HOLD UP TIME**
- 20ms at full load

**INPUT VOLTAGE RANGE**
- 85 ~ 132Vac/150 ~ 264Vac

**FREQUENCY RANGE**
- 47 ~ 63Hz

**EFFICIENCY (Typ.)**
- 86%

**AC CURRENT (Typ.)**
- 115Vac/230Vac

**INPUT CURRENT**
- 115Vac 4.0A/230Vac 8.0A

**PROTECTION**
- Overload: 105 ~ 120% rated output power
- Over Current: Protection type: Hicu, mode: responds automatically after fault condition is removed

**WORKING TEMPERATURE**
- -40 ~ +60°C (Refer to “Derating Curve”)

**WORKING HUMIDITY**
- 20 ~ 90% RH non-condensing

**STORAGE TEMPERATURE**
- -20 ~ +85°C, 10 ~ 95% RH

**VIBRATION**
- 10 ~ 500Hz (5g peak)

**SAFETY & EMC**
- IEC/EN60950-1, UL1913, CE, EN61000-3-2,3

**DERATING CURVE**

**STATIC CHARACTERISTICS**

**DIMENSION**
- 160 x 80 x 35mm

**PACKING**
- 0.69Kg, 20pcs/24Kg/CRUOT

**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 230Vac of bandwidth using a 10Hz bandwidth and terminated with 0.1uF 475uF parallel capacitor.
3. Tolerance: includes set up tolerance, the regulation and load regulation.
4. The power supply is a component which will be installed into a final equipment. The final equipment must be re-certified so it still meets EMC directives.