100W Single Output Switching Power Supply

**Mechanical Specification**

**Static Characteristics (24V)**

**Derating Curve**

**Specifications**

**Model**
- MS-100-5
- MS-100-12
- MS-100-15
- MS-100-24

**Input**
- **DC Voltage**
  - 5V
  - 12V
  - 15V
  - 24V
- **Rated Current**
  - 1A
  - 2.5A
  - 4.4A
  - 4.2A
- **Current Range**
  - 0.1 ~ 1A
  - 0.4 ~ 1A
  - 0.4 ~ 2A
- **Rated Power**
  - 75W
  - 100W
  - 120W
- **Ripple & Noise**
  - 12V
  - 5V
- **Output Voltage**
  - 13.8 ~ 16.5V
  - 21.6 ~ 24.6V
- **Input Current (Typ)**
  - 0.2A
- **Input Voltage Range**
  - 85 ~ 264VAC
  - 110 ~ 276VDC
- **Frequency Range**
  - 47 ~ 63Hz
- **Efficiency (Typ)**
  - 70%
- **Inrush Current (Typ)**
  - 28A
- **Leakage Current**
  - ≤0.3mA

**Protection**
- **Overload**
  - 105 ~ 105% rated output power

**Environment**
- **Temperature (Typ)**
  - -10 ~ +70°C (Refrigeration mode)
  - -20 ~ 50°C (Non-refrigeration mode)
- **Temperature Coefficient**
  - 0.08%/°C (10 ~ 35°C)
- **Vibration**
  - 3G at 30 ~ 500Hz, sine wave, period 60min.
- **Safety Standards**
  - UL1952, UL60950-1, TUV EN61550-1, CCC, EGB68434 approved
- **Safety Marking**
  - CQC, GOST, CE
- **EMC**
  - Compliance with EN55022 (CISPR22) Class B, EN55032 2-2-2
- **MTBF**
  - 500,000hr
- **Dimensions (WxDxH)**
  - 185x70x53mm
- **Weight**
  - 0.74kg

**Note**
- All parameters are measured at 25°C ambient temperature and comply with the specified limits.
- ripple & noise are measured at 20kHz bandwidth with a 60A/6kHz bandwidth terminated with a 0.1uF & 4.7uF parallel capacitor.
- 100% full load burn-in test conducted.
- Fixed switching frequency of 77kHz.