

1. Input Characteristics:

- 1.1 Input Voltage limit: 180Vac to 264Vac ,single phase.
- 1.2 Normal Voltage Range: 200Vac~240Vac.
- 1.3 Input Frequency Range: 180Vac-264Vac/47-53 Hz.
- 1.5 The max. Current is 0.6A at full load and normal AC input.
- 1.6 Inrush Current: No damage shall occur to the power supply and the fuse shall not open or exceed its spec.
- 1.7 Efficiency: 80%min. at full load and normal AC input.
- 1.8 No Load Operation: No damage or hazardous condition will occur.

2. Output Characteristics:

2.1 Static output characteristics:

Output voltage	Voltage regulations	Minimum loading	Maximum loading	Ripple	Noise
+24V	21.6~26.4V	0A	2A	150mV	300mV
+5V	4.85~5.35V	0.1A	3A	50mV	100mV

Notes:

When the +24V output load is Min load , the +5V shall not exceed 1.5A;
When the +24V output load is Max load , the +5V can't low than 0.5A
The maximum continuous power rating of supply is 63W at 25°C .
De-rate 0.63W/°C from 25°C to 45°C to yield a maximum continuous power rating of 50.4W at 45°C ,each output max. load decreases in proportion.

2.2 Output transient response:

2.2.1: +5V 3.0A in 1.0msec and 0.5A in 1.0msec.

2.2.2: +24V 2A in 1.0msec and 0.05A in 1.0msec.

Each output must be added capacitive load : +5V:2200u; +24V:1000u

3. Protections:

3.1:Over Voltage Protection: Protection When control loop open circuit.

3.2:Short Circuit Protection:The power supply shall shut down for shorting :+24V,+5V. (+24V with Min load)

4. Hi-pot:

4.1: (1) Primary to Secondary 2.4Kvac or 3.0Kvdc.

(2) Primary to F.G 2.4Kvac or 3.0Kvdc.

- a) Rise time :1 s
- b) Dwell time :1 s
- c) Fall time :1 s
- d) Arcing current: 10mA

5. Environment

5.1 Thermal Performance

Operating, Full Load	0 to 45°C
Non-operation	-10 to 65°C

5.2 Relative Humidity

Operating Non-condensing at 40°C	25 to 75% RH
Non-operation and condensing at 40°C	5 to 75% RH

5.2 Altitude

Operate properly at any altitude between 0 to 10,000 feet and storage 50,000 feet maximum.

5.3 Mechanical shock: The power supply shall be not damaged during a shock of 30g trapezoidal wave, 11ms, non-operation.

5.4 Vibration: Non-operate. Sine waves 1.0g maximum acceleration, 5-200Hz swept, 30 minutes dwell at resonant points.

6. **M.T.B.F.:** 100K hours min. at 63W load and 25°C ambient conditions.

7. **Burn-In:** Unit shall be burn in under 45°C, with 230Vac and 80% Load.