

1. Scope

This specification is for +5 VDC, 1.0A Switching Power Supply .

2. General

The basic AC/DC converter design features are listed below:

- Single Output Voltages: +5 VDC
- Short circuit protection and power limiting
- Simple construction - easy assembly and service/repair
- High reliability
- High efficiency to reduce temperature rise.
- Working efficiency is 65% minimum.
- The Power Supply consumption is less than 0.3Watts input 230Vac @No load
- UL Certified , UL Listing: E245640

3. Input Electrical Characteristics Overview

3.1. Input Conditions:

The Power Supply operates over the input ranges as follows:

- Rated input voltage: 100~240Vac
- Operating range: 90~264Vac
- Rated input frequency: 50/60Hz (47~63Hz)
- Rated input current: 0.5A max @ full rated load
- Standby Power Loss (no loading) : Max. 0.3W

4. Output Electrical Characteristics

4.1 Rated Output voltage +5 VDC

4.2 Line/Load Regulation $\pm 3\%$

4.3 Minimum load current 0.010A

4.4 Rating load current 1.0A

4.5 Ripple and noise 100mVp-p Max

4.6 Switching efficiency 65% Minimum at nominal input voltage and full load

4.7 Turn on delay time 2S @ nominal input AC voltage and full load

4.8 Rise time:

Start-up rise time of less than 1S, to rise to +5 VDC @ full rated load

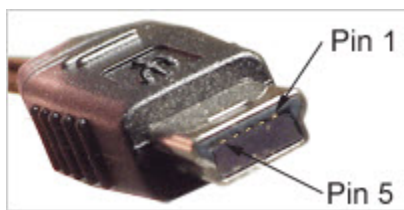
4.9 DC Output Hold-Up Time $\geq 10\text{mS}$

4.10 Short-circuit protection:

DC output has short circuit protection. A short condition on the DC output causes **no damage** to the power supply. The unit shall recover and function automatically as soon as the short condition is removed.

4.11 DC Connector:

Male 5 Pin Mini USB.



Pin 1: +5 VDC

Pin 5: Ground