

## 1. Function Description

This power supply is designed for personal computer. There are six DC outputs: +5V, -5V, +12V, -12V, 12V2, +3.3V & +5V<sub>SB</sub>, and it provides power to all computer systems and peripherals with maximum protection.

Here are some of the key features:

- **S-ATA ready**
- **All kinds of protection circuits (OVP/OPP/SCP)**
- **Fully supports all Intel & AMD system demands**
- **20-24Pin/4-8Pin connectors available to support both 20Pin and 24Pin socket motherboards**
- **Tube- tide design to tidy wires**
- **Anti-corrosive nickel plated chassis**

## 2. How to Setup

It is rather simple to install this power supply to your precious computer tower. Follow the steps below to finish the setup.

Step1:Open the computer tower cover; put the power supply into the corresponding location of the tower, and then use right screws to fix the power supply to tower.

Step2:Put the Main Power Connector, ATX12V Connector, S-ATA Connector, Peripheral Connectors and Floppy Connectors to the corresponding male connectors of main-board, peripheral devices (i.e. HDD, CDROM etc.) and floppy drivers respectively. When you connect the connectors, please pay attention to the orientation of them because of the different hole sizes. Find the proper orientation and push down firmly making sure that the pins are aligned.

## 3. Specifications

### 3.1 Input Requirements

The power supply shall operate as below:

115V (100V min.-132V max.), 10A, 60Hz

230V (200V min.-264V max.), 5.5A,50Hz

### 3.2 DC Output

#### Power distribution configuration:

Model	CA-450
DC O/P Load	Max. 450W
+3.3V	21A
+5V	20A
+12V	18A
+12V2	18A
-12V	0.5A
+5V <sub>SB</sub>	2.5A

### 3.3 Protection

The power supply itself is designed with short circuit, over voltage and over load protection functions described as below:

#### 3.3.1 Short Circuit Protection

A short circuit on any DC output will cause the power to latch. The power supply will withstand a continuous short circuit to the output without damage or overseers to the unit. The +5V<sub>SB</sub> can be shorted indefinitely and will recover automatically when the short is removed.

#### 3.3.2 No Load Operation

No hazardous conditions or damage to the supply will occur with all of the DC output connectors disconnected from the load.

### 3.3.3 Over Load Protection

When the total load exceed 130%~160% of the maximum output current, the power supply shall be latched into the state of shutdown.

### 3.4 Physical Environment

#### Operation Conditions

The power supply shall be capable of continuous operation and meet all electrical specification without need for adjustment when subjected to the following environ-mental conditions:

	Temp. Vs Load Condition	Humidity
Operation	0 ~30°C@Full Load	10% ~90%RH
	-20°C ~80°C@90% Rated Load	
	-20°C ~80°C@80@ Rated Load	
Storage	-20°C ~80°C	5% ~90%RH

No degradation of the power supply shall occur during shipping or storage at the specified condition.

### 3.5 Regulatory Compliance

Our power supply has been certified to comply with multi-national Safety and EMI.

-- UL, CUL, CSA, TUV, FCC, CB

## 4. Precaution

**Caution: Unauthorized personnel should not do this to avoid electrical shock!**

4.1 Do not open the top cover of the power supply case.

4.2 Please keep the power supply from humidity.

## 5. Simple Maintenance

If power supply cannot work properly, before send for repair, please check the following items:

5.1 Does power cord indeed plug into electrical outlet?

- 5.2 Does Input Voltage set in power supply correspond to the main source in your environment?
- 5.3 Please check the output connectors plugging in proper direction and connecting firmly.
- 5.4 Please turn off the power and turn it on for several times, and the interval must be at least 5 seconds.
- 5.5 Having checked above items, if the power supply still does not function, please send it back to your retailer or distributor for repair.