

SAF User's Manual

1. Silent Solution :

SAF serial Power Supply is equipped with special circuitry to achieve optimum balance between noise reduction and necessary cooling. The temperature response system the power supply fans run at the lowest speed appropriate to load and conditions. The result is a great reduction in overall noise.

There are three dedicated fan connectors marked Fan Only from the power supply for system case fans. You may connect your case fans to them and have the silent circuitry control the speed of the case fans.

Note: Please do not connect more than three external fans to the Fan Only connectors in any combination.

2. Connectors:

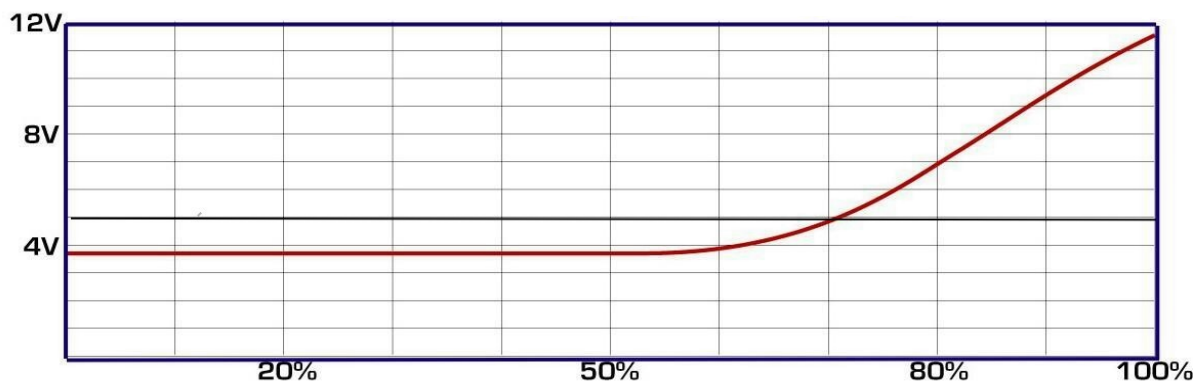
The SAF for K8/P4 serial are an ATX12V 1.2/1.3 version form factor power supply provides:

- ♦ A single 20-pin Main Power Connector.
- ♦ A 4-pin +12V Power Connector to the motherboard.
- ♦ 4-pin Peripheral Power Connectors.
- ♦ 4-pin Floppy Drive Power connectors
- ♦ Two serial ATA connectors for your HDDs.
- ♦ Three Fan Only connectors for case fans.
- ♦ 4-pin fan detection connectors (520W only)
- ♦ A single 24-pin Main Power Connector (for Server version only).
- ♦ A 24-pin converted to 20-pin connector (for Server version only).
- ♦ A 8-pin +12V Power Connector to the motherboard (for Server version only).

Note:

1. The speed of the fan may be as low as 600 RPM when temperatures are low. At these speeds some motherboards may not be able to properly detect the fan speed and may generate false warnings of fan failure. Please refer to your motherboard manual for proper fan monitoring set up.
2. The voltage of fan only connector may be low as 4V is via the fan control function, some brands of fan may not be working due to their start voltage always need higher voltage to rotate the fan.

FAN Voltage Diagram



3. Power Switch on/off :

This power supply comes with a main power switch. Make sure you turn the switch to the ON (I) position before you boot up your computer for the first time.

In normal operation there is no need to turn the switch to the OFF (O) position since the power supply is equipped with a soft on/off feature which turns your computer on and off through the soft switch on your computer case. You may need to turn the switch to the OFF position occasionally should your computer crash and you cannot shut it down through use of the soft switch.

4. Active PFC (Power Factor Correction)

Models designed for the EU include Power Factor Correction (PFC) circuitry in accord with European standard regulation code EN61000-3-2. By altering the input current wave shape, PFC improves the power factor of the power supply and results in increased energy efficiency, reduced heat loss, prolonged life for power distribution and consumption equipment, and improved output voltage stability.

5. Installation:

1. Disconnect the power cord from your old power supply.
2. Follow your computer case manual and open the case.
3. Disconnect all the power Connectors from the motherboard and from the peripheral devices such as case fans, hard drives, floppy drives, etc.
4. Remove the existing power supply from your computer case and replace it with SAF serial power supply.
5. Connect the Power Connectors to your motherboard and peripheral devices.
6. Connect the case fans to the dedicated fan connectors.

Note: Do not connect other devices except fans to these connectors. You may connect case fans to the regular 4-pin Peripheral connectors if you choose not to utilize Circuitry on your case fans.

7. ATP (ATP Version Only)

Please plug the connector 1 or 2 of figure b into the connector 『 To thermal fan only connector 』 of figure a .

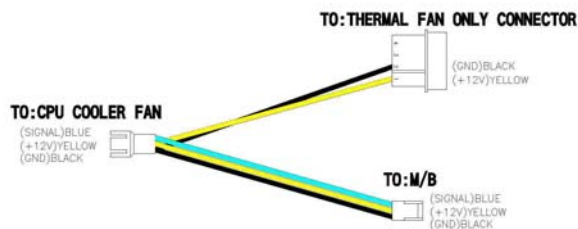


figure a

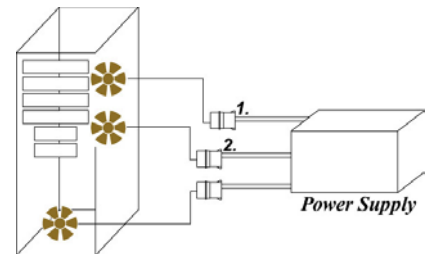


figure b

8. Connect the 3-pin fan signal connector to one of the fan connectors on your motherboard. (if applicable)

Note: You do not need to connect the 3-pin fan signal connector in order to make the power supply work if you choose not to monitor the speed of the fan.

9. Close the computer case.
10. Connect the power cord to the SAF serial power supply

6. Specifications:

6.1. INPUT:

- ◆ VOLTAGE : 115V/30A, 230V/60A at 25°C cold start
- ◆ FREQUENCY : 47Hz ~ 63Hz
- ◆ INRUSH CURRENT : 115V/35A, 230V/70A at 25°C cold start
- ◆ Peak Load for 60 seconds

6.2. PROTECTION:

If the power supply latches into shutdown stage (when over current, over voltage or short circuit protection is working), the power supply shall return to normal operation only after the fault has been removed and PS-ON is reset for a minimum of 1 Second or remove AC power is removed and re-applied.

◆ **Over Current Protection**

When output current above the maximum ratings, the power supply would powered off to protect the computer.

◆ **Over Voltage Protection**

When output voltage above the maximum ratings, the power supply would powered off to protect the computer.

◆ **Short Circuit Protection**

The power supply DC outputs are protected from damage due to faults, when any output shorts to ground..

7.Warranty: 3 years.

Notice :

Do not remove the 『Warranty void if removed』 sticker, or we won't take charge of RMA.