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SUPER FLOWER SF-650F14HG

Super Flower Leadex III Gold 650W Full Modular Power Supply Instruction Manual

Model: SF-650F14HG

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Super Flower Leadex III Gold 650W Full Modular Power Supply. Please read this manual thoroughly before installation and retain it for future reference.



Figure 1: Super Flower Leadex III Gold 650W Power Supply, showing its compact black chassis and hexagonal fan grille.

SETUP AND INSTALLATION

The Super Flower Leadex III Gold 650W features a full modular design, allowing for cleaner cable management by only connecting the necessary cables. Ensure your system is powered off and unplugged before beginning installation.

1. Unpacking and Inspection

Carefully remove the power supply and all accessories from the packaging. Inspect for any visible damage. The package includes the power supply unit, modular cables, and mounting screws.



Figure 2: Assortment of modular cables provided with the power supply, including main ATX, CPU, PCIe, and SATA/Peripheral connectors.

2. Mounting the Power Supply

Install the power supply into the designated PSU bay of your computer case. Secure it using the provided screws. Ensure the fan is oriented correctly for optimal airflow within your case (typically facing downwards if your case has a bottom vent, or upwards if not).



Figure 3: Rear panel of the power supply, showing the AC input, main power switch, and the ECO fan mode switch.

3. Connecting Modular Cables

Connect the necessary modular cables to the power supply unit first, then to your motherboard, CPU, graphics card(s), and

storage devices. Refer to the labels on the power supply and cables to ensure correct connections.

- **MB (Motherboard):** Connect the 24-pin ATX cable.
- **CPU:** Connect the 4+4-pin or 8-pin EPS cable(s) to your motherboard.
- **VGA (Graphics Card):** Connect the 6+2-pin PCIe cable(s) to your graphics card(s).
- **SATA / Perif:** Connect SATA power cables for SSDs/HDDs and peripheral cables for other devices.



Figure 4: Close-up of the modular cable connection panel on the power supply, clearly labeled for Motherboard, CPU, VGA, and SATA/Peripheral connections.



Figure 5: Another detailed view of the modular cable ports, highlighting the individual connectors for various components.

The Super Flower Leadex III Gold 650W is designed for efficient and quiet operation.

1. ECO Fanless & Silent Mode

This power supply features an ECO mode switch. When activated, the fan will remain off during low power loads, providing silent operation. The fan will automatically engage when the power load increases to maintain optimal cooling. This feature contributes to a quieter computing environment.



Figure 6: The ECO fan mode switch, allowing users to toggle between silent (fanless at low loads) and standard fan operation.

2. Power On/Off

After all cables are securely connected, plug the AC power cord into the power supply and a wall outlet. Flip the main power switch on the rear of the PSU to the 'On' position. You can then power on your computer system.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your power supply.

- **Keep Clean:** Periodically clean the exterior of the power supply and its fan grille to prevent dust buildup, which can impede airflow and cooling. Use compressed air for best results.
- **Ensure Airflow:** Make sure your computer case has adequate airflow and that the power supply's fan is not obstructed.
- **Avoid Overloading:** Do not exceed the rated wattage of the power supply. Overloading can lead to instability and premature failure.



Figure 7: Detailed view of the hexagonal fan grille, emphasizing the importance of keeping it clear for proper ventilation.

TROUBLESHOOTING

If you encounter issues with your power supply, consider the following steps:

- **No Power:**

- Check if the AC power cord is securely plugged into both the PSU and the wall outlet.
- Ensure the main power switch on the PSU is in the 'On' position.
- Verify that the wall outlet is functional.

- **System Instability/Shutdowns:**

- Ensure all modular cables are securely connected to both the PSU and the components.
- Check if your system's power draw exceeds the 650W capacity of the PSU.
- Monitor system temperatures to ensure proper cooling.

- **Fan Not Spinning (in ECO mode):** This is normal behavior at low loads. The fan will activate automatically when needed. If the fan does not spin even under heavy load (and ECO mode is off), contact support.

SPECIFICATIONS

Key technical specifications for the Super Flower Leadex III Gold 650W Power Supply:

Feature	Detail
Brand	SUPER FLOWER
Model Number	SF-650F14HG
Output Wattage	650 Watts
Efficiency Rating	80 PLUS Gold

Form Factor	ATX
Power Supply Design	Full Modular
Cooling Method	Air (Fluid Dynamic Bearing Fan)
Fan Count	1
Item Weight	5.95 pounds
Package Dimensions	12.05 x 8.98 x 4.88 inches



Figure 8: The power supply's specification label, detailing electrical output and certifications.

WARRANTY AND SUPPORT

The Super Flower Leadex III Gold 650W Power Supply comes with a **10-year warranty**, ensuring long-term reliability and peace of mind. For technical support, troubleshooting assistance, or warranty claims, please visit the official SUPER FLOWER website or contact their customer service department.

You can find more information and support resources at the [SUPER FLOWER Store](#).