XPG COREREACTORII850G-BKCUS

XPG Core Reactor II 850W Modular Power Supply User Manual

Comprehensive guide for installation, operation, and maintenance of your XPG Core Reactor II 850W Power Supply.

1. INTRODUCTION

The XPG Core Reactor II 850W Modular Power Supply is engineered to deliver stable and efficient power to your computing system. Compliant with the Intel ATX 3.0 design guide and featuring an 80 PLUS Gold certification, this power supply ensures reliable performance for a wide range of PC builds. Its fully modular design simplifies cable management, contributing to a cleaner and more organized internal setup.

Figure 1: XPG Core Reactor II 850W Power Supply

2. PACKAGE CONTENTS

Verify that all items listed below are included in your product package:

- XPG Core Reactor II 850W Modular Power Supply Unit
- Modular Cable Set (including 12VHPWR cable)
- AC Power Cord
- Mounting Screws
- User Manual (this document)

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Video 1: Overview of the XPG Core Reactor II Power Supply and its included components.

3. FEATURES

- **Intel ATX 3.0 Design Guide Compliant:** Equipped with a 12VHPWR (12+4) Connector for next-generation GPUs.
- **Certified GOLD Efficiency:** Achieves high efficiency ratings by both 80 PLUS and Cybenetics, reducing energy waste and heat generation.
- **Premium Japanese Capacitors:** Utilizes 100% Japanese 105°C Capacitors for enhanced stability and long-term reliability.
- **Fluid Dynamic Bearing (FDB) Fan:** Features an FDB fan with intelligent fan control for quiet operation

and efficient cooling.

- **Available in Multiple Wattages:** Models available in 1200W, 1000W, 850W, 750W, and 650W to suit various system requirements.

Figure 2: ATX 3.0 and 12VHPWR Connector Details

Figure 3: Japanese 105°C Capacitors

4. SPECIFICATIONS

Attribute	Value
Model Name	COREREACTORII850G-BKCUS
Output Wattage	850 watts
Form Factor	ATX
Efficiency Certification	80 PLUS Gold, Cybenetics Gold
Cooling Method	Air (FDB Fan)
Product Dimensions (L x W x H)	5.51 x 5.91 x 3.35 inches (140 x 150 x 86 mm)
Item Weight	3.5 pounds (1.59 Kilograms)

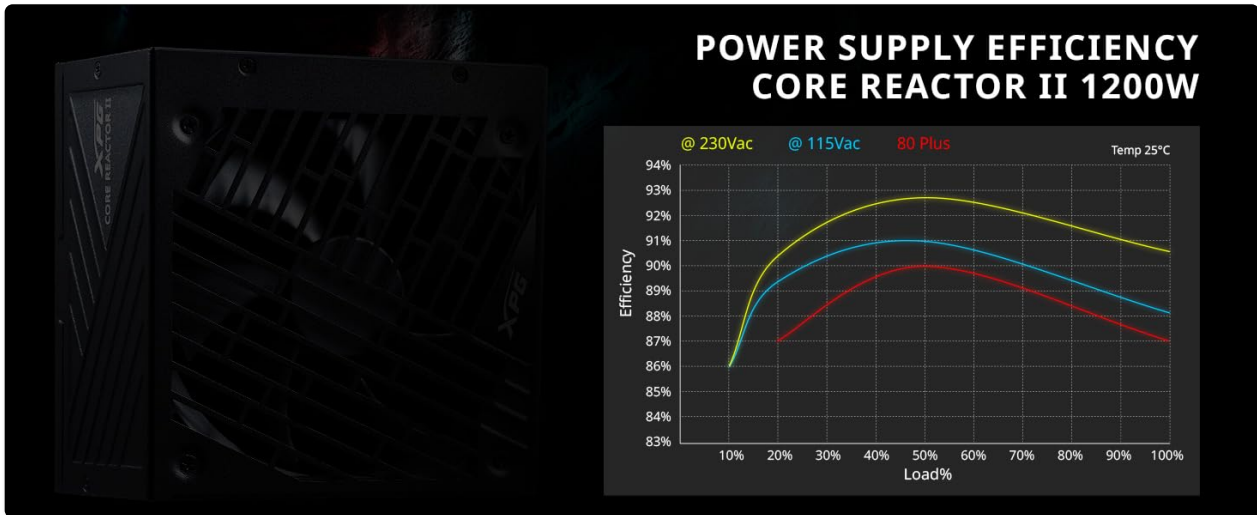| Compatible Devices	PC Components (Motherboard, CPU, GPU, Storage)

Figure 4: Cable Configuration for Core Reactor II Series

5. SETUP

Follow these steps to properly install your XPG Core Reactor II 850W Power Supply:

1. **Prepare Your System:** Ensure your computer is powered off and unplugged from the wall. Open your PC case to access the power supply mounting area.

2. **Mount the PSU:** Secure the XPG Core Reactor II PSU into the designated power supply bay in your PC case using the provided mounting screws. Ensure the fan is oriented correctly for optimal airflow (typically facing downwards or towards an intake vent).

3. **Connect Essential Cables:**

   - **24-Pin ATX Motherboard Cable:** Connect the large 24-pin cable from the PSU to the corresponding port on your motherboard.
   - **CPU Power Cables:** Connect the 4+4-pin or 8-pin CPU power cables to the CPU power headers on your motherboard. Modern motherboards may require two such connections.
   - **GPU Power Cables:** For graphics cards requiring a 12VHPWR connector, use the dedicated 12VHPWR (12+4) cable. For other GPUs, use the appropriate 6+2-pin PCI-E cables. Ensure all connections are fully seated.
   - **SATA/Molex Cables:** Connect SATA power cables to your storage drives (SSDs, HDDs) and Molex cables to any other peripherals requiring them.

4. **Cable Management:** Utilize the fully modular design to connect only the necessary cables, improving airflow and aesthetics within your case. Route cables neatly to prevent obstruction.

5. **Final Check:** Double-check all connections to ensure they are secure. Close your PC case.

Figure 5: Modular Cable Ports

Figure 6: Side View of Modular Connections

6. OPERATING INSTRUCTIONS

After successful installation, connect the AC power cord to the PSU and then to a wall outlet. Flip the main power switch on the back of the PSU to the 'ON' position. You can then power on your computer as usual. The XPG Core Reactor II features an intelligent FDB fan control. The fan operates silently at low loads and adjusts its speed dynamically to maintain optimal temperatures under heavier loads. This ensures efficient cooling without unnecessary noise.

Figure 7: Main Power Switch and AC Inlet

7. MAINTENANCE

To ensure the longevity and optimal performance of your power supply, consider the following maintenance tips:

- **Keep it Clean:** Periodically clean the exterior of the power supply and its fan grill to prevent dust buildup, which can impede airflow and cooling efficiency. Use compressed air for hard-to-reach areas.
- **Ensure Proper Ventilation:** Make sure your PC case has adequate airflow and that the power supply's intake and exhaust vents are not obstructed.
- **Avoid Overloading:** Ensure your system's power consumption does not consistently exceed the PSU's rated wattage.

8. TROUBLESHOOTING

If you encounter issues with your XPG Core Reactor II 850W Power Supply, try the following steps:

- **No Power:**

  - Check if the AC power cord is securely connected to both the PSU and the wall outlet.
  - Ensure the main power switch on the PSU is in the 'ON' position.
  - Verify that the 24-pin ATX and CPU power cables are correctly and firmly connected to the motherboard.

- **System Instability/Random Shutdowns:**

  - Ensure all component power cables (GPU, CPU, etc.) are securely connected.
  - Confirm that your system's total power draw does not exceed the 850W capacity of the PSU. High-end components, especially GPUs, can have significant power spikes.
  - Check for proper ventilation within your PC case to prevent overheating.

- **Unusual Noise:**

  - If the fan is unusually loud, ensure it is not obstructed by cables or dust.
  - A slight buzzing noise under heavy load can sometimes occur with certain components; however, persistent loud or grinding noises may indicate a fan issue.

If issues persist after following these steps, please contact XPG customer support.
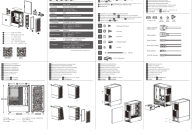
9. WARRANTY AND SUPPORT

The XPG Core Reactor II 850W Modular Power Supply comes with a **10-Year Warranty**, ensuring long-term reliability and peace of mind. This warranty covers defects in materials and workmanship under normal use. For technical support, warranty claims, or further assistance, please visit the official XPG website or contact their customer service department. Keep your proof of purchase for warranty validation.

Manufacturer: ADATA
Model Number: COREREACTORII850G-BKCUS

Related Documents - COREREACTORII850G-BKCUS

	[XPG CORE REACTOR II VE Series Modular Power Supply Quick Start Guide](#) This guide provides quick start instructions, specifications, cable listings, protection circuit details, installation steps, troubleshooting tips, and safety information for the XPG CORE REACTOR II VE series of modular power supplies, including 850W, 750W, and 650W models.
	[XPG Core Reactor II Gold Series Power Supply Quick Start Guide](#) This document provides a quick start guide for the XPG Core Reactor II Gold Series power supply, including specifications, cable listings, efficiency and fan curves, safety information, installation instructions, troubleshooting, and warranty details.
	[XPG PROBE Bronze Power Supply Quick Start Guide: Installation & Specs](#) Comprehensive quick start guide for XPG PROBE Bronze power supply units (700W and 600W). Includes installation steps, troubleshooting tips, warranty information, and technical specifications.
	[XPG VALOR AIR Compact Mid-Tower Chassis User Manual and Specifications](#) Detailed specifications, dimensions, compatibility, and installation guide for the XPG VALOR AIR compact mid-tower PC chassis. Includes cleaning and safety instructions, warranty information, and multilingual support.
	[XPG MAGE Gaming Keyboard Quick Start Guide](#) Comprehensive quick start guide for the XPG MAGE gaming keyboard, detailing features like Gaming Mode, profile management, customizable LED lighting, N-Key Rollover, and compatibility with XPG PRIME software.

[XPG BATTLECRUISER FAQ: Installing a 360mm CPU Liquid Cooler](#)

This FAQ provides essential guidance for installing a 360mm CPU liquid cooler in the XPG BATTLECRUISER PC chassis, covering bracket placement, modular adjustments, and DRAM clearance.