

KFD A12-2-120005000

KFD 12V AC DC Adapter User Manual

Compatible with Wahoo KICKR Core Smart Trainer (Models WF123, WFBKTR4, SUN-1200500)

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your KFD 12V AC DC Adapter. This power supply is specifically designed to be compatible with Wahoo KICKR Core Smart Trainers, including models WF123, WFBKTR4, and SUN-1200500. It delivers a stable 12V output at 5A, ensuring reliable power for your indoor cycling training equipment.

The KFD adapter is certified for safety and quality, featuring multiple protection mechanisms to safeguard your device and the power supply itself.



Image 1.1: The KFD 12V AC DC Adapter, showing the main unit and connected power cords.

Important Note: This adapter provides a 12V output. It is NOT compatible with 24V or 48V versions of Wahoo KICKR trainers. Please verify your trainer's voltage requirements before use.

2. SETUP INSTRUCTIONS

Follow these steps to properly connect your KFD 12V AC DC Adapter to your Wahoo KICKR Core Smart Trainer:

1. **Unpack the Adapter:** Carefully remove the KFD 12V AC DC Adapter and its power cords from the packaging.
2. **Connect AC Input Cable:** Plug the detachable AC input cable into the adapter's AC input port. Ensure it is firmly seated.
3. **Connect to Power Outlet:** Insert the AC plug into a standard wall power outlet (100-240V, 50-60Hz).
4. **Connect to Wahoo KICKR Core:** Locate the power input port on your Wahoo KICKR Core Smart Trainer. Insert the DC output barrel connector from the KFD adapter into this port. Ensure a snug fit.
5. **Verify Connection:** Once all connections are secure, your Wahoo KICKR Core Smart Trainer should receive power. Refer to your trainer's manual for specific power indicator lights.



Image 2.1: The KFD adapter properly connected to a Wahoo KICKR Core Smart Trainer, ready for use.

COMPATIBLE WITH

Compatible with: Wahoo WF123 WFBKTR4 /
Wahoo Model SUN-1200500
SUN1200500



(⚠ Note: Output 12V ✓ . NOT for 24V ✗ and 48V ✗ version. Someone may have bought it by mistake. Please Check For Compatibility With Your Unit. Thanks.)

Image 2.2: Visual confirmation of compatibility with Wahoo WF123, WFBKTR4, and SUN-1200500 models, emphasizing the 12V output requirement.

3. OPERATING INSTRUCTIONS

The KFD 12V AC DC Adapter functions as a dedicated power supply for your compatible Wahoo KICKR Core Smart Trainer. Once correctly connected as described in the Setup section, the adapter continuously supplies the necessary power to operate your trainer.

- **Automatic Operation:** The adapter begins supplying power as soon as it is plugged into a live electrical outlet and connected to the trainer.
- **Continuous Power:** It provides a consistent 12V DC output, allowing for uninterrupted training sessions.
- **Power Indicator:** Some adapters may feature a small LED indicator light to confirm power is being supplied.

No further operational steps are required for the adapter itself beyond ensuring proper connection and power supply.

4. MAINTENANCE AND SAFETY

To ensure the longevity and safe operation of your KFD 12V AC DC Adapter, please observe the following maintenance and safety guidelines:

- **Keep Dry:** Do not expose the adapter to water, moisture, or high humidity. Use indoors only.
- **Temperature Control:** Avoid operating the adapter in extremely hot or cold environments. Ensure adequate ventilation around the adapter to prevent overheating.
- **Physical Inspection:** Regularly inspect the adapter and its cables for any signs of damage, such as cuts, frayed wires, or bent pins. Discontinue use if damage is found.
- **Cleaning:** Disconnect the adapter from the power outlet and the device before cleaning. Use a dry, soft cloth to wipe the surface. Do not use liquid cleaners or solvents.
- **Storage:** When not in use for extended periods, unplug the adapter from both the wall outlet and the device. Store it in a cool, dry place.
- **No Disassembly:** Do not attempt to open or repair the adapter. This will void the warranty and may pose a safety risk.
- **Proper Handling:** Always grasp the plug when disconnecting from an outlet; do not pull on the cord.

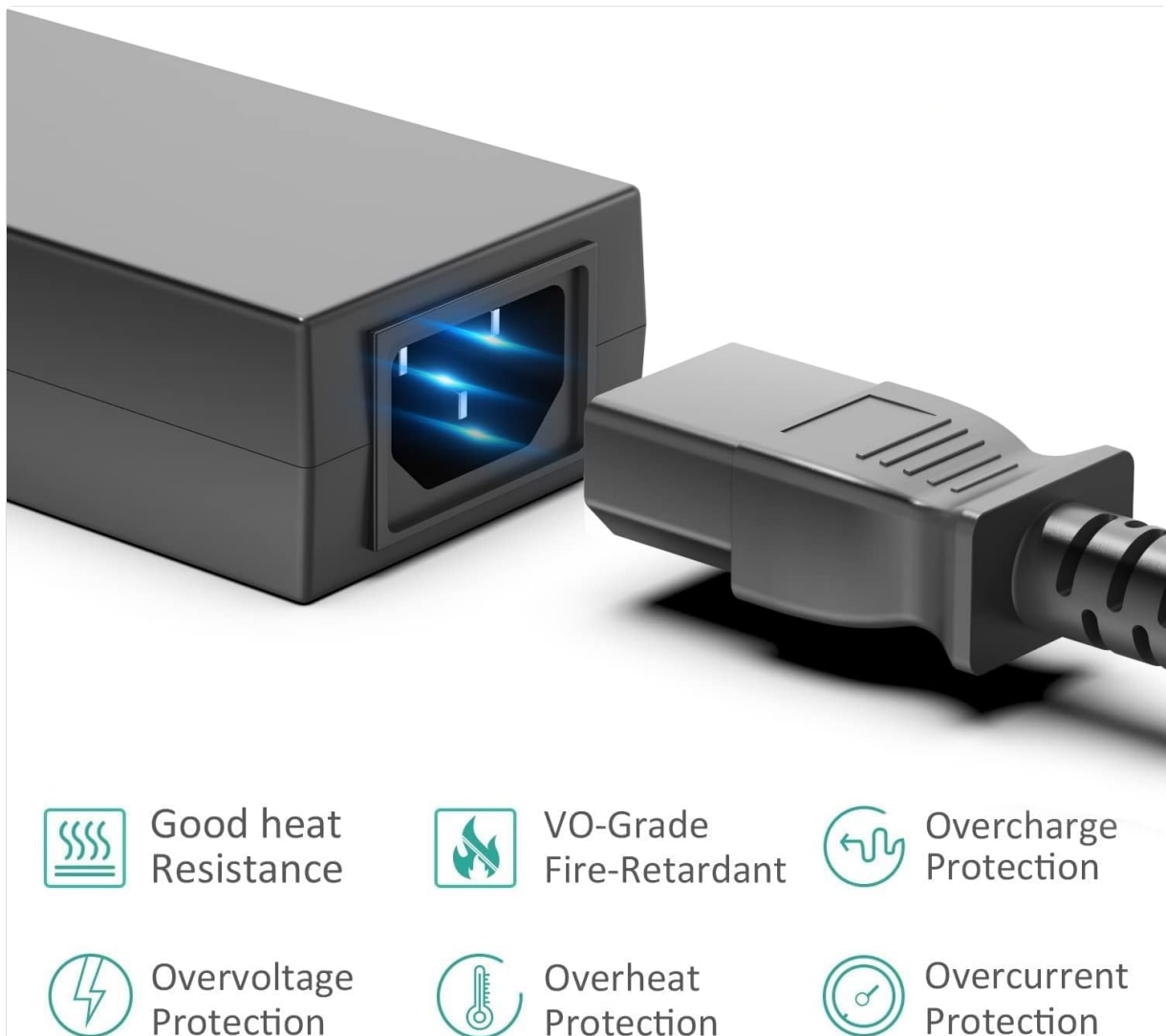


Image 4.1: An internal view of the adapter showcasing its robust components designed for safety and stability.

5. TROUBLESHOOTING

If you encounter issues with your KFD 12V AC DC Adapter, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No power to Wahoo KICKR Core	<ul style="list-style-type: none"> Loose connection No power from wall outlet Incorrect adapter voltage Damaged adapter/cable 	<ul style="list-style-type: none"> Ensure all cables are securely plugged in. Test the wall outlet with another device. Confirm your Wahoo KICKR Core requires 12V. This adapter is not for 24V/48V models. Inspect adapter and cables for damage. Replace if damaged.
Adapter feels hot	<ul style="list-style-type: none"> Normal operation (slight warmth) Poor ventilation Overload or internal fault 	<ul style="list-style-type: none"> A slight warmth is normal. Ensure the adapter is in a well-ventilated area, not covered. If excessively hot, unplug immediately and contact support.
Intermittent power	<ul style="list-style-type: none"> Loose connection Faulty cable 	<ul style="list-style-type: none"> Check all connections for tightness. Inspect cables for damage. Try wiggling cables gently to see if power returns.

If the problem persists after attempting these solutions, please contact KFD customer support for further assistance.

6. SPECIFICATIONS

Detailed technical specifications for the KFD 12V AC DC Adapter:

- **Model Number:** A12-2-120005000
- **Input:** 100-240V AC, 50-60Hz
- **Output:** 12V DC, 5A (60W)
- **Connector Type:** Barrel Connector
- **Certifications:** UL, CE, FCC, RoHS
- **Protection Features:**
 - OVP (Over Voltage Output Protection)
 - OCP (Over Current Output Protection)
 - SCP (Short Circuit Output Protection)
 - Overcharge Prevention
 - Over-Discharge Prevention
 - Overheating Prevention
 - Over-Output Protection
- **Compatible Devices:** Wahoo Model WF123, WFBKTR4 Fitness KICKR Core Smart Trainer, Wahoo Model SUN-1200500 SUN1200500.

- **Dimensions (Package):** 7.6 x 5.04 x 1.81 inches
- **Item Weight:** 13.2 ounces
- **Color:** Black

Multiple protection, strict control of charging safety



Overcharging
Prevention



Intelligent current
matching



Overvoltage
Protection



Overcurrent
Protection



Over-Discharge
Prevention



Overheating
Prevention



Over-Output
Protection



Low electromagnetic
interference



Image 6.1: Overview of the multiple protection features integrated into the KFD adapter for charging safety.

HIGH TRANSMISSION OF THINNED COPPER WIRE

Multiple quality safety verification



SAFE&RELIABLE

Made with high quality materials

Image 6.2: Detail of the high-quality thinned copper wire used in the power cord, ensuring safe and reliable power transmission, along with UL certification.

7. WARRANTY AND SUPPORT

KFD stands behind the quality of its products. Your KFD 12V AC DC Adapter comes with the following warranty and support:





- **Warranty Period:** 30 Days Free Exchange / 36 Months (3 Years) Warranty.
- **Manufacturer:** Shenzhen Huikeyuan Electronic Technology Co.,Ltd (KFD).
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact KFD customer support through the retailer where the product was purchased or visit the official KFD website for contact information.



Image 7.1: Visual representation of the 3-year warranty and an invitation to contact customer support.

© 2025 KFD. All rights reserved.

Related Documents - A12-2-120005000

	<p>Tacx FLUX 2 & FLUX S Assembly Guide Garmin</p> <p>Detailed assembly instructions for the Tacx FLUX 2 and FLUX S smart bicycle trainers. Covers parts identification, cassette installation, bicycle attachment, device care, specifications, and app information. Includes model numbers T2980 and T2900S.</p>
	<p>Bryton Rider S810 GPS</p> <p>Bryton Rider S810 GPS . , , , Bryton Active .</p>
	<p>SIGMA ROX 2.0 GPS Bike Computer: Quick Start Guide</p> <p>This guide provides essential information for setting up and using the SIGMA ROX 2.0 GPS bike computer. Learn about installation, button functions, first start, training, menu navigation, settings, e-bike connection, the SIGMA RIDE app, charging, and technical specifications.</p>
	<p>Tacx FLUX 2 & FLUX S Assembly and Installation Guide</p> <p>Comprehensive guide for assembling and installing the Tacx FLUX 2 and FLUX S bicycle home trainers, including parts list, installation steps, and product specifications.</p>

LANOS X BIKE



ASSEMBLY MANUAL



[Lanos X-Bike Assembly Manual and User Guide](#)

Detailed assembly instructions, safety guidelines, usage tips, and warranty information for the Lanos X-Bike home exercise bike. Learn to set up and operate your Lanos X-Bike for an effective workout.

bryton



MANUALE UTENTE

[Bryton Rider S810 Manuale Utente: Guida Completa al Ciclocomputer GPS](#)

Esplora il manuale utente del Bryton Rider S810, una guida completa per configurare, utilizzare e ottimizzare il tuo ciclocomputer GPS per prestazioni ciclistiche avanzate, navigazione e allenamento.