K&F CONCEPT KF28.0103

K&F Concept NP-FZ100 & LP-E6NH 4-Slot Battery Charger User Manual

Model: KF28.0103

1. Introduction

Thank you for choosing the K&F Concept NP-FZ100 & LP-E6NH 4-Slot Battery Charger. This device is designed to efficiently charge up to four camera batteries simultaneously, offering fast charging capabilities and comprehensive protection features. This manual provides essential information for safe and effective use of your charger.

2. Product Overview

The K&F Concept 4-Slot Battery Charger is a versatile charging hub compatible with NP-FZ100 and LP-E6/N/E6NH/E6P series batteries. It features a 40W Power Delivery (PD) fast charging system and multiple safety protections. Additionally, it includes integrated slots for memory card storage, making it a compact and convenient accessory for photographers and videographers.



Image: The K&F Concept 4-Slot Battery Charger with both NP-FZ100 and LP-E6 series batteries inserted, illustrating its dual compatibility. The charger features four battery slots and an LED display.

Key Features:

- **Simultaneous 4-Battery Charging:** Powers up to four NP-FZ100 or LP-E6/N/E6NH/E6P batteries concurrently.
- **40W PD Fast Charging:** Utilizes Power Delivery technology for rapid recharging, fully charging four 2280 mAh NP-FZ100 batteries in approximately 2.5 hours (with a 40W PD adapter).
- **Comprehensive Protection System:** Built-in smart chips protect against overcharging, short circuits, overheating, overcurrents, and overvoltages.
- **Flexible Power Solution:** Universal USB-C input allows charging from wall adapters, power banks, laptops, or car chargers.
- **Integrated Memory Card Storage:** Features four slots for storing CFexpress Type-A/SD cards (exterior) and CFexpress Type-B cards (interior).
- **Portable Design:** Compact and durable, designed for easy transport in a camera bag.



Image: The K&F Concept 4-Slot Battery Charger with its lid open, revealing four battery slots and additional integrated slots for memory cards (CFexpress Type-A/SD and CFexpress Type-B).



Image: A hand placing the K&F Concept 4-Slot Battery Charger into a green backpack, demonstrating its compact and portable design for travel.

3. Setup

1. **Unpack the Charger:** Carefully remove the charger and any included accessories from the packaging.
2. **Connect Power:** Use the provided USB-C cable to connect the charger's USB-C input port to a compatible power source. For optimal fast charging (40W), a PD (Power Delivery) wall adapter of 40W or higher is recommended. The charger can also be powered by a portable power bank, laptop, or car charger via USB-C.
3. **Insert Batteries:** Open the charger lid. Insert your NP-FZ100 or LP-E6/N/E6NH/E6P batteries into the designated slots. Ensure the battery contacts align correctly with the charger's pins. The charger supports mixing battery types across the four slots.
4. **Optional: Store Memory Cards:** Utilize the integrated memory card slots for storage. The exterior slots are suitable for CFexpress Type-A or SD cards, while the interior slots are for CFexpress Type-B cards.



Image: The K&F Concept 4-Slot Battery Charger demonstrating its flexible power options, showing connections to a power bank, a car charger, and a laptop via its USB-C input.

4. Operating Instructions

Charging Process:

1. Once batteries are inserted and the charger is connected to a power source, the intelligent LCD screen will activate.
2. Each battery slot (CH1, CH2, CH3, CH4) has a dedicated indicator on the LCD screen.
3. During charging, the battery icon for the respective slot will show a blinking green indicator, signifying that charging is in progress.
4. When a battery is fully charged, its indicator will turn to a solid green, indicating completion.
5. To achieve the maximum 40W fast charging, ensure your power adapter provides at least 40W of Power Delivery output.



Image: Close-up of the K&F Concept 4-Slot Battery Charger's intelligent LCD screen, displaying the charging status for each of the four battery channels. It shows icons for 'No battery', 'Charging in progress' (blinking green), and 'Charge complete' (solid green).

Power Distribution:

The charger intelligently distributes power based on the input wattage:

- If input power is less than 19W: 1 channel activated.
- If input power is less than 28W: 2 channels activated.
- If input power is less than 40W: 3 channels activated.
- If input power is 40W or higher: All 4 channels activated for simultaneous fast charging.

If the charger does not detect a PD protocol, QC (Quick Charge) will activate automatically. However, QC chargers typically only activate 2 channels by default. If your QC charger provides 24W, a device may require a longer charging time.



Image: The K&F Concept 4-Slot Battery Charger with a glowing blue cable indicating power input, emphasizing its 40W maximum fast charging capability and a 2.5-hour charging time for a 2600 mAh battery.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the charger. Do not use liquid cleaners or solvents.
- **Storage:** When not in use, store the charger in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure the charger's ventilation holes are not obstructed during operation to prevent overheating. The charger is designed with multiple ventilation orifices for optimal heat dissipation.
- **Battery Contacts:** Periodically check battery contacts on both the charger and batteries for any dirt or corrosion. Clean gently if necessary.
- **Cable Care:** Avoid bending or crimping the USB-C charging cable excessively to prevent damage.



Image: The K&F Concept 4-Slot Battery Charger with blue airflow lines illustrating the multiple ventilation holes designed for optimized air circulation and thermal dissipation.

6. Troubleshooting

Problem	Possible Cause	Solution
Batteries not charging.	No power to charger. Batteries incorrectly inserted. Damaged cable or adapter.	Ensure power adapter is connected and functional. Reinsert batteries, ensuring proper contact. Try a different USB-C cable or power adapter.
Slow charging speed.	Low wattage power adapter. Non-PD/QC compatible adapter.	Use a 40W or higher PD-compatible power adapter. Ensure the power source supports Power Delivery (PD) for optimal speed.

Problem	Possible Cause	Solution
Charger or batteries feel hot.	Normal during fast charging. Poor ventilation.	This is normal. If excessive, discontinue use. Ensure ventilation holes are clear. Do not cover the charger.
LCD display not working.	No power. Internal fault.	Check power connection. Contact customer support if power is confirmed.



Image: The K&F Concept 4-Slot Battery Charger with a prominent blue shield graphic, illustrating its comprehensive safety protections against temperature, overvoltage, overcharge, overcurrent, and short circuits.

7. Specifications

Feature	Detail

Feature	Detail
Brand	K&F CONCEPT
Model Number	KF28.0103
Color	Black
Product Dimensions (D x W x H)	10.6 x 7.2 x 8 cm
Input Voltage	5 Volts
Output Voltage	7.4 Volts (DC)
Connector Type	USB-C
Number of Ports	4
Charging Time (approx.)	2.5 hours (for 2280 mAh NP-FZ100 battery with 40W PD)
Compatible Batteries	NP-FZ100, LP-E6/N/E6NH/E6P
Compatible Cameras	Sony A7iii, A7iv, FX30, FX3, A6700, A6600, Canon EOS R5, R6, R7, 5D, 6D, 7D Mark II
Compliant Specification	UKCA

8. Warranty and Support

This K&F Concept product comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.
The warranty does not cover damage caused by:

- Misuse, abuse, or improper operation.
- Unauthorized repairs or modifications.
- Accidents, drops, or external impacts.
- Normal wear and tear.

For warranty claims, technical support, or any inquiries regarding your K&F Concept charger, please contact K&F Concept customer service through their official website or the retailer where the product was purchased. Please have your proof of purchase and model number (KF28.0103) ready.

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