



DuoVolt Charger

for Sony NP-FZ100 /
NP-FW50 / NP-BX1 Batteries

Owner's Manual

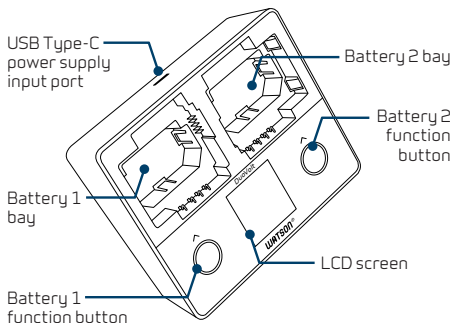
SAFETY WARNINGS

- Do not charge any battery other than rechargeable lithium-ion batteries. Other types of batteries can burst, causing personal injury and damage.
- Do not disassemble the charger. Take the charger to a qualified service technician when service or repair is required. Improper use may result in the risk of electric shock or fire.
- The charger and batteries may feel warm during the charging process. This is normal.
- Do not operate the charger if it has received a sharp blow or has been dropped or damaged in any way.
- Never expose the charger to any moisture.
- Do not use an extension cord when using the charger. This can result in fire or electric shock.
- Never use the charger as a DC power source for any electrical equipment.
- Always unplug the charger from the AC outlet before handling the batteries.
- Unplug the charger from the AC outlet before attempting cleaning, and clean with only a soft and dry cloth.
- Do not use any attachment not recommended or sold by Watson, as this could result in the risk of fire, electric shock, or injury.
- All images are for illustrative purposes only.

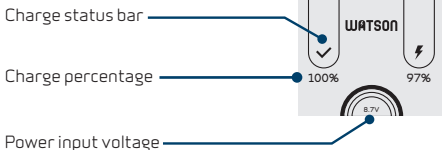
OVERVIEW

INCLUDES

USB Type-C to Type-C cable



LCD



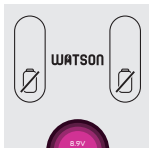
OPERATION

The DuoVolt offers high and low charging speeds over two independent channels and accommodates three types of batteries with fast charging capability.

Connect the included USB cable to a USB power source. The DuoVolt draws up to 25 W of input power and with PD (Power Delivery) technology, it calculates and monitors the power needed for each battery.

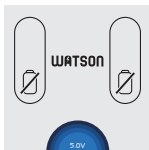
PD/QC EQUIPPED POWER ADAPTER

When using a PD or QC equipped USB power adapter, the voltage indicator will be purple.



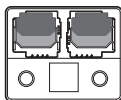
STANDARD POWER ADAPTER

When using a standard USB power adapter, the voltage indicator will be blue.

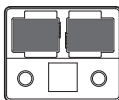


INSERTING BATTERIES

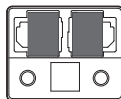
You can insert the batteries in any combination as a pair or mixed as shown. A tone will sound to indicate a connection, and the battery's charge percentage will appear on the LCD.



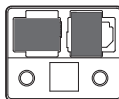
NP-FZ100



NP-FW50



NP-BX1



Mixed

Note: NP-BX1 batteries must be inserted upside down.

CHARGING STATUS BAR



Low
charging
mode



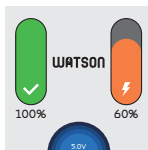
High
charging
mode



Charging
complete

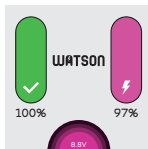
LOW CHARGING MODE

This mode charges at a lower voltage and slower speed, which can help preserve the life of your battery.



HIGH CHARGING MODE

Note: You have to use a PD or QC compatible power supply to access the high charging mode.



Press and hold the battery's function button until the charge-status bar turns purple.

If you're using a PD or QC compatible charger with less than 25 W output power and high charging two FZ-100 batteries at the same time, the unit will turn off and restart in low power mode due to insufficient power for both batteries. It is recommended to high charge one battery at a time or switch to a 25 W or higher PD or QC power source.

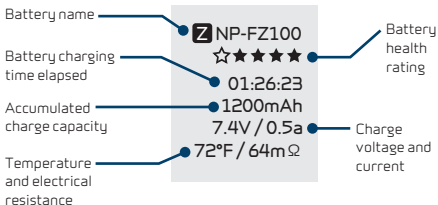
BATTERY CHARGING SPEEDS

Battery Type	NP-FZ100	NP-FW50	NP-BX1
Charge Voltage	8.4 V	8.4 V	4.2 V
Low Mode Max Charge Current	1000 mA	500 mA	600 mA
Low Mode Full Charge Time	2.5 hr.	2.5 hr.	2.5 hr.
High Mode Max Charge Current	1500 mA	800 mA	1000 mA
High Mode Full Charge Time	1.5 hr.	1.5 hr.	1.5 hr.

Note: These are estimated charging speeds. Speeds may vary depending on the age and health of the battery.

BATTERY CHARGING DETAILS

Press the battery function button to view the battery's details while charging.



BATTERY HEALTH RATING

During charging, the charger will rate the battery from 1 to 5 stars according to the internal resistance. After charging is complete, the charger will reevaluate the battery's health according to the internal resistance and accumulated charge capacity.

STANDBY MODE

The charger will enter standby mode after five minutes of inactivity while the battery is charging or after it's fully charged. The LCD backlight will switch to the lowest level. Inserting or removing a battery or pushing a button will wake the charger from standby mode.

CAPACITY LIMITING

A safety cutoff is enabled when an applied current exceeds the battery capacity. A warning message will appear on the LCD.

BATTERY LEVEL CHECKING WITHOUT POWER

Check the battery level without connecting to a USB power source.

Press the function button for approximately two seconds, and the LCD will display the battery level. The screen will turn off after five seconds to save battery power.

Note: For NP-BX1 batteries, it is necessary to load another NP-FW50 or NP-FZ100 in the other battery bay to display the correct level or power.

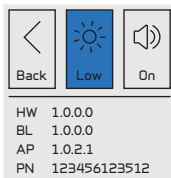
SYSTEM SETTINGS

Access the system settings when there's no battery in the charger. You can change the LCD brightness and sound, and view the charger's firmware.

Press the two function buttons at the same time for approximately two seconds to enter the settings. Use the function buttons to navigate the menu. If you don't make a selection within approximately 60 seconds, the LCD will revert to its default view.

Function button 1:
Cycles through the settings.

Function button 2:
Toggles the setting's options.



◀ Returns to the previous screen

☀ Display brightness:
High, Mid, Low

🔊 Audio confirmation:
On or Off

HW: Hardware version

BL: Boot load version

AP: App version

PN: PN code

WARNING NOTIFICATION



If this warning notification appears on the LCD, it means there's an error with the battery or charging channel. Check that the battery is properly inserted into the charger or replace the battery.

If the notification is still present, contact customer support by visiting www.poweredbywatson.com or calling Customer Service at 212-594-2353.

FIRMWARE

Visit www.poweredbywatson.com for the latest firmware updates. Follow the instructions in the folder with the latest firmware version.

SPECIFICATIONS

Input Voltage	5~12V
Input Power	5V/1.0A, 5V/2.0A QC 2.0/3.0 PD 3.0 5-9V/2.0A
Max Input Draw	25W
USB Cable	USB Type-C to Type-C
Operating Temperature	32°F to 104°F (0°C to 40°C)
Dimensions	4.4 × 3.6 × 1.3 in. (112 × 91 × 33.5 mm)
Weight	4.1 oz. (116 g)
Certifications	CE

ONE-YEAR LIMITED WARRANTY

This Watson product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function. This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state. To obtain warranty coverage, contact the Watson Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Watson along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense. For more information or to arrange service, visit www.poweredbywatson.com or call Customer Service at 212-594-2353.

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