Makita DC1414

Makita DC1414 NiMH/NiCd Battery Charger User Manual

Model: DC1414 (193864-0)

Introduction

This user manual provides essential information for the safe and efficient operation of your Makita DC1414 NiMH/NiCd Battery Charger. Please read this manual thoroughly before use to ensure proper handling, maximize battery life, and prevent damage or injury.

The Makita DC1414 charger is designed to charge Makita NiMH and NiCd batteries ranging from 7.2V to 14.4V. It features efficient charging cycles to quickly prepare your batteries for use.

Important Safety Instructions

WARNING:

- Always read the instruction manual carefully before using the charger.
- Risk of battery leakage, heat generation, or rupture. Use only Makita specified batteries with this charger.
- Risk of fire, electric shock, or rupture. Do not use in rain or wet conditions.
- Do not use with generators or boosters, as this may cause malfunction.
- Do not charge non-rechargeable batteries.
- Do not expose the charger to water or moisture.
- Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged. Take it to a qualified service person.
- Do not disassemble the charger. Incorrect reassembly may result in a risk of electric shock or fire.
- Unplug the charger from the outlet before attempting any maintenance or cleaning.
- Use only attachments recommended or sold by the manufacturer.
- Do not abuse the cord. Never carry the charger by the cord or yank it to disconnect from an outlet. Grasp the plug rather than the cord when disconnecting.
- Keep the charger away from excessive heat and direct sunlight.

Product Overview

The Makita DC1414 charger is a compact and efficient unit designed for Makita NiMH and NiCd battery packs. Below are images illustrating the charger and its key features.



Figure 1: Front view of the Makita DC1414 battery charger, showing the battery slot and indicator lights.





Figure 2: Angled view of the Makita DC1414 charger, highlighting its compact design and power cord connection.



Figure 3: Close-up of the charger's information label, detailing input/output specifications and safety warnings in Japanese.

Indicator Lights:

- **Charging Indicator (Green/Red):** Indicates the charging status.
- **Fully Charged Indicator (Green):** Illuminates when the battery is fully charged.
- **Malfunction/Error Indicator (Red):** Indicates a problem with the battery or charger.

Setup

1. **Unpack the Charger:** Carefully remove the charger from its packaging. Inspect for any signs of damage.
2. **Choose a Location:** Place the charger on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure there is sufficient space around the charger for air circulation.
3. **Connect to Power:** Plug the charger's power cord into a standard 100V AC electrical outlet (50-60Hz). The charger is designed for 100V input as indicated on the product label.
4. **Prepare Battery:** Ensure the battery to be charged is clean and free of debris.

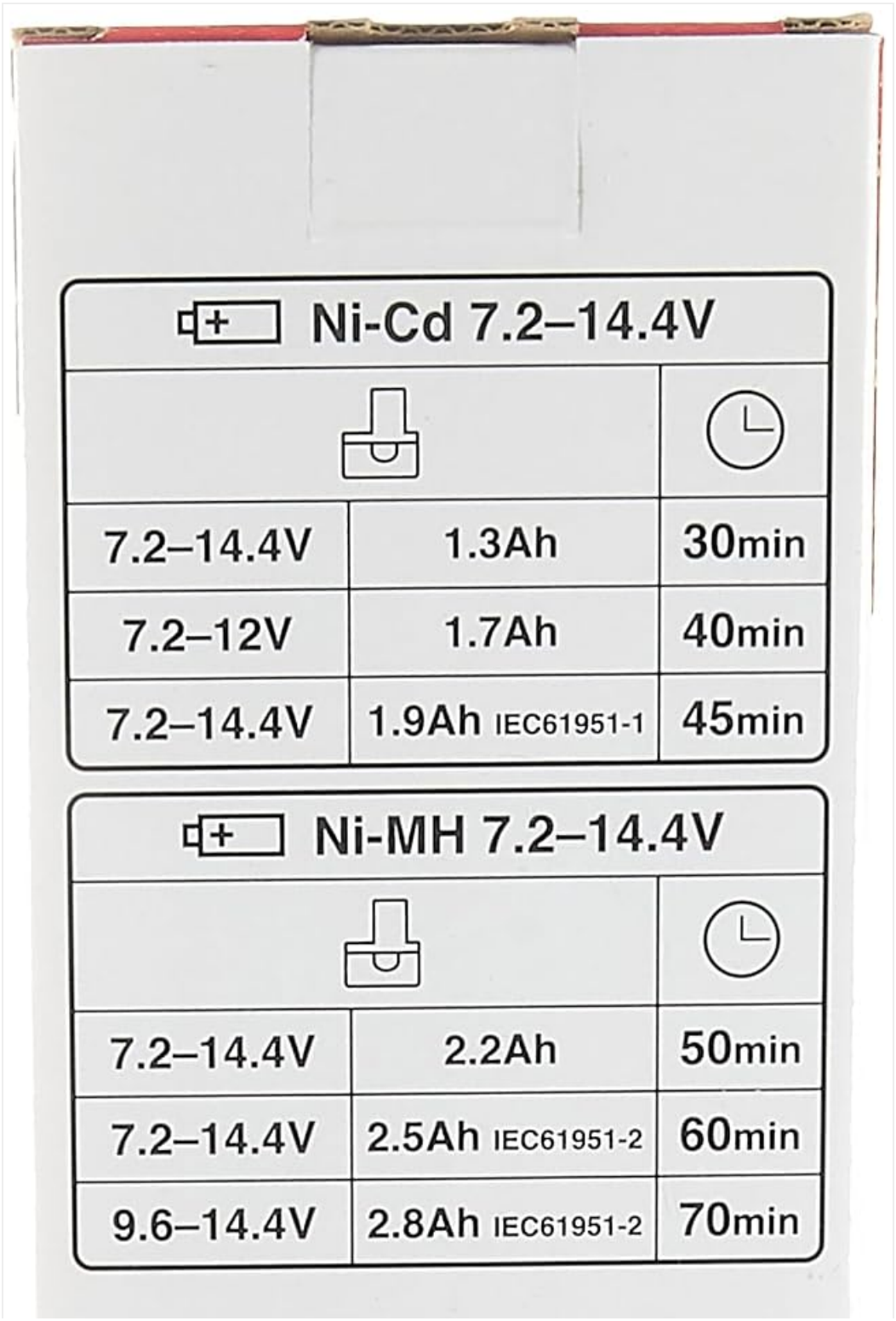
Operating Instructions

Charging a Battery:

1. **Insert Battery:** Align the battery pack with the charging slot on the charger. Slide the battery firmly into the slot until it clicks into place.
2. **Monitor Charging:** The charging indicator light will illuminate, typically red or green depending on the charging status. Refer to the charger's label for specific light patterns.
3. **Charging Completion:** Once the battery is fully charged, the indicator light will change, usually to a solid green.
4. **Remove Battery:** Once charging is complete, carefully slide the battery out of the charger.
5. **Unplug Charger:** For safety and energy conservation, unplug the charger from the power outlet when not in use.

Approximate Charging Times:

The following table provides approximate charging times for various battery capacities. Actual times may vary based on battery condition and ambient temperature.



Ni-Cd 7.2–14.4V		
7.2–14.4V	1.3Ah	30min
7.2–12V	1.7Ah	40min
7.2–14.4V	1.9Ah IEC61951-1	45min

Ni-MH 7.2–14.4V		
7.2–14.4V	2.2Ah	50min
7.2–14.4V	2.5Ah IEC61951-2	60min
9.6–14.4V	2.8Ah IEC61951-2	70min



Figure 4: Rear view of the product packaging, displaying detailed charging time tables for both Ni-Cd and Ni-MH batteries.

Ni-Cd Battery Charging Times (7.2V - 14.4V)

Voltage Range	Capacity	Approx. Charging Time
7.2V - 14.4V	1.3Ah	30 min
7.2V - 12V	1.7Ah	40 min
7.2V - 14.4V	1.9Ah	45 min

Ni-MH Battery Charging Times (7.2V - 14.4V)

Voltage Range	Capacity	Approx. Charging Time
7.2V - 14.4V	2.2Ah	50 min
7.2V - 14.4V	2.5Ah	60 min
9.6V - 14.4V	2.8Ah	70 min

Note: The charger is not compatible with 18V batteries.

Maintenance

- **Cleaning:** Disconnect the charger from the power supply before cleaning. Use a dry cloth to wipe the exterior of the charger. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the charger in a cool, dry place, away from direct sunlight and moisture, when not in use.
- **Inspection:** Periodically inspect the power cord and charger casing for any signs of damage. If damage is found, do not use the charger and contact Makita service.

Troubleshooting

Problem	Possible Cause	Solution
Charger indicator light does not illuminate.	No power to the charger; Battery not inserted correctly; Battery is severely discharged or defective.	Check power outlet and cord connection; Re-insert battery firmly; Try a different battery. If problem persists, charger may be faulty.
Charging takes too long.	Battery is old or worn out; Ambient temperature is too low or too high.	Consider replacing the battery; Ensure charger is in a room temperature environment (10°C - 40°C / 50°F - 104°F).
Charger indicator shows an error (e.g., flashing red).	Battery is too hot/cold; Battery is defective; Charger malfunction.	Allow battery to cool down or warm up to room temperature; Try charging a different battery; If error persists with multiple batteries, the charger may require service.

Specifications

Feature	Detail
Model Number	DC1414 (193864-0)
Input Voltage	100V AC, 50-60Hz, 105VA
Output Voltage	DC 7.2V - 14.4V, 2.6A
Compatible Battery Types	NiMH, NiCd
Product Dimensions (L x W x H)	3.94 x 3.94 x 9.06 inches (10 x 10 x 23 cm)
Item Weight	1.08 pounds (0.49 kg)
Manufacturer	Makita
Date First Available	November 18, 2013

Warranty and Support

For information regarding product warranty, service, or technical support, please contact Makita directly or visit their official website. Warranty terms and conditions may vary by region and purchase location.
You can find more information and contact details on the official Makita website: www.makita.com
For specific product support related to this charger, please refer to the model number DC1414 or 193864-0.

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