

SINGLE-UNIT CHARGER NNTN8117ASP01

USER GUIDE



en-US



MOTOROLA SOLUTIONS

CHARGER: NNTN8117ASP01

IMPORTANT SAFETY INSTRUCTIONS

This document contains important safety and operating instructions. Please read these instructions carefully and save them for future reference.

Before using the battery charger, read all the instructions and cautionary markings on (1) the charger, (2) the battery, and (3) on the radio using the battery.



WARNING

1. To reduce risk of injury, charge only the rechargeable Motorola Solutions authorized batteries listed in Table 1. Other batteries may explode, causing personal injury and damage.
2. Use of accessories not recommended by Motorola Solutions may result in risk of fire, electric shock, or injury.
3. To reduce risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.



WARNING

4. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in risk of fire and electric shock. If an extension cord must be used, make sure that the cord size is 18 AWG for lengths up to 100 ft (30.48 m), and 16 AWG for lengths up to 150 ft (45.72 m).
5. To reduce risk of fire, electric shock, or injury, do not operate the charger if it has been broken or damaged in any way. Take it to a qualified Motorola Solutions service representative.
6. Do not disassemble the charger; it is not repairable and replacement parts are not available. Disassembly of the charger may result in risk of electrical shock or fire.
7. To reduce risk of electric shock, unplug the charger from the ac outlet before attempting any maintenance or cleaning.
8. This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Operational Safety Guidelines

- Turn the radio off when charging the battery.
- This equipment is not suitable for outdoor use. Use only in dry locations/conditions.
- Connect equipment only to an appropriately fused and wired supply of the correct voltage (as specified on the product). Disconnect from line voltage by removing main plug.
- The socket outlet to which this equipment is connected should be close by and easily accessible.
- In equipment using fuses, replacements must comply with the type and rating specified in the equipment instructions.
- Maximum ambient temperature around the power supply equipment must not exceed 40 °C (104 °F).
- Output power from the power supply unit must not exceed the ratings stated on the product label located on the bottom of the charger.
- Make sure the cord is located where it will not be stepped on, tripped over, or subjected to water, damage, or stress.

Charger Specification

Input: 14 V \overline{DC} , 1 A

Output: 8.4 V \overline{DC} , 1.25 A

Motorola Solutions Authorized Batteries

The batteries listed in Table 1 are approved for use with the Single-Unit Charger.

Table 1: Motorola Solutions Authorized Batteries

Kit (Part Number)	Platform/Description
PMNN4065 PMNN4104 PMNN4412 PMNN4415	MOTOTRBO / NiMH
PMNN4406 PMNN4416 PMNN4463	MOTOTRBO / Li-Ion
PMNN4435*	MOTOTRBO / Li-Ion *Long Life Battery (Typically 1000 Full Charge/Discharge Cycles)

Table 1: Motorola Solutions Authorized Batteries

Kit (Part Number)	Platform/Description
PMNN4066 PMNN4077 PMNN4101 PMNN4103 PMNN4407 PMNN4409 PMNN4413 PMNN4417 PMNN4418 PMNN4448 PMNN4491	MOTOTRBO / IMPRES Li-Ion
PMNN4069 PMNN4102 NNTN8129	MOTOTRBO / IMPRES Li-Ion FM
PMNN4488	IMPRES Li-Ion 3000 mAh IP68 Battery for Vibrating Belt Clip
PMNN4489	MOTOTRBO / IMPRES Li-Ion TIA4950 HazLoc IP68
PMNN4490	
PMNN4493	IMPRES Li-Ion 3000 mAh IP68 Battery
NNTN7789	MOTOTRBO / IMPRES Li-Ion CSA
NNTN8560	MOTOTRBO / IMPRES Li-Ion TIA4950 HazLoc IP67

Motorola Solutions Authorized Power Sources and Transformers

The Class 2 battery charger should be used with the direct plug-in, Motorola Solutions authorized transformers listed below:

**Table 2: Motorola Solutions Authorized Power Sources/
Transformers**

Base Power Supply	Use with Line Cord Part No.	Description
25012006001	3004209T01	Switch Mode Power Supply (for EU)
	3004209T02	Switch Mode Power Supply (for HK, UK)
	3004209T07	Switch Mode Power Supply (for Aus, NZ)
	3004209T13	Switch Mode Power Supply (for Korea)
	3004209T15	Switch Mode Power Supply (for Japan)
	3004209T16	Switch Mode Power Supply (for Brazil)
25009297001	N/A	Switch Mode Power Supply (for NA, LA, US, Taiwan)
2571886T01	3004209T01	Switch Mode Power Supply (for EU)

Operating Instructions

Single-Unit Chargers are intended for use only with the authorized Motorola Solutions batteries listed in Table 1 on page 4. Other batteries may not charge properly.

The battery charger's pocket will accommodate either a radio with a battery attached or a battery alone. **Prior to charging a battery with radio, turn the radio off.** To charge a battery, use the following procedure: (Refer to Figure 1 on page 8).

1. Plug the round end of the transformer cord into the socket on the back of the charger.
2. Plug the transformer into the appropriate ac outlet. The charger LED will blink green once to indicate a successful power-up.
3. Insert a battery, or a radio with battery (radio turned off), into the charger's pocket by:
 - a. aligning the groove on each side of the battery with the corresponding raised rail on each side of the charger pocket.
 - b. pressing the battery toward the rear of the pocket
 - c. sliding the battery into the charger pocket, ensuring complete contact between the charger and battery contacts.
4. When the battery is properly seated in the pocket, the charger LED will light in accordance with Table 3 on pages 9-11.

Note: Charge new batteries overnight to ensure full charge.

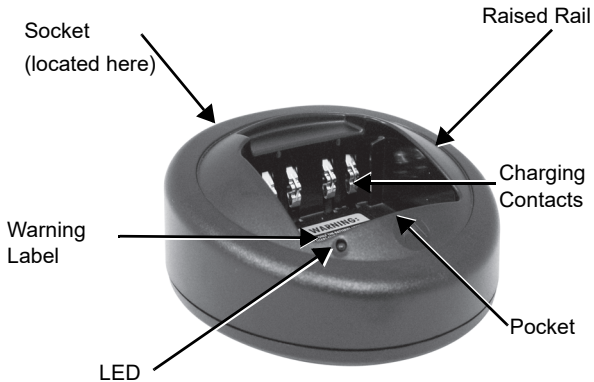


Figure 1: Battery Charger

Troubleshooting

When troubleshooting, always observe the color of the LED:

Table 3: LED Indications of Battery/Charger Status

LED Color	Battery/Charger Status
No LED indication	The Battery Pocket is empty. Or, the Battery is not fully seated into the Charger Battery Pocket or something is preventing the Charger from detecting the Battery.
Single green blink	Successful charger power-up.
Blinking red	The Charger successfully detected a Battery in the Battery Pocket. The Charger identified the Battery as invalid, damaged or over-charged. The Charger may have detected an open or shorted Battery contact, corrupted Battery data, an invalid Motorola Solutions identifier from the Battery memory device, no Battery memory device, or an invalid Nickel battery code resistor.

Table 3: LED Indications of Battery/Charger Status (Continued)

LED Color	Battery/Charger Status
Steady red	<p>The Charger successfully detected a Battery in the Battery Pocket.</p> <p>The Charger is charging the Battery.</p> <p>The Battery is 0–90 % charged.</p>
Blinking orange	<p>The Charger successfully detected a Battery in the Battery Pocket.</p> <p>The Charger is Waiting to Rapid Charge the Battery.</p> <p>Note: The wait may be because the Battery is too hot, too cold, or over-discharged. After the Battery temperature changes to an acceptable value or the Charger recovers the Battery from the over-discharged condition, then the Charger will transition to the appropriate charging mode.</p>
Blinking green	<p>The Charger successfully detected a Battery in the Pocket.</p> <p>The Charger is charging the Battery. The Nickel battery is in Top-Off Charge. The Lithium battery is more than 90 % charged.</p>
Steady green	<p>The Charger successfully detected a Battery in the Pocket.</p> <p>Nickel battery charging is complete. Lithium battery charging is more than 95 % complete.</p>

Service

The Single-Unit Chargers are not repairable. Order replacement chargers as necessary.

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners.

© 2021 Motorola Solutions, Inc. All rights reserved



MOTOROLA SOLUTIONS

EU Contact:

Motorola Solutions, Czerwone Maki 82, 30-392 Krakow, Poland



MN007895A01-AA

Printed in