


# PMPN4486\_Desktop Charger User Guide



MN005447A01-AB

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**WARNING**  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

- This equipment is not suitable for outdoor use. Use only in dry locations and conditions.
- Connect the power cord only to an appropriately fused and wired AC outlet with the correct voltage, as specified on the product.
- The AC outlet to which the power supply is connected should be close by and easily accessible.
- Make sure the power supply cord to the charger is located where it will not be stepped on, tripped over, or subjected to water, damage, or stress.
- Disconnect from line voltage by removing the power cord from the AC outlet.
- Turn the radio off when charging the battery.
- Use only Motorola Solutions authorized power adapters listed in Table 4 and Table 5. Do not connect an improper AC Adapter.
- The charger and/or AC Adapter will generate a moderate amount of heat during the charging process. This is a normal condition.
- The charger is designed for charging only and is not designed for operation (transmit or receive) of the radio.

## MOTOROLA SOLUTIONS AUTHORIZED BATTERIES

**Table 2: Motorola Solutions Authorized Batteries (used with Charger Rail Insert CD-58)**

Part Number	VXSTD Part Number	Spacer Plate
FNB-V127LI-UNI	AAJ61X001	Needed
FNB-V128LI-UNI	AAJ62X001	
FNB-V129LI-UNI	AAJ63X001	
FNB-V129LIIS-UNI	AAL73X001	
FNB-V126LI-UNI	AAJ60X001	Not Needed
FNB-V130 LI-UNI	AAJ64X001	
FNB-V131 LI-UNI	AAJ65X001	
FNB-V132LI-UNI	AAJ66X001	
FNB-V133LI-UNI-JP	AAJ67X301	
FNB-V134LI-UNI-JP	AAJ68X301	
FNB-V134LIIS-UNI	AAK66X001	
FNB-V136-UNI	AAL01X001	

**Table 3: Motorola Solutions Authorized Batteries (used with Charger Rail Insert CD-70)**

Part Number	VXSTD Part Number	Spacer Plate
FNB-V144LI-UNI	AAM40X501	Not Needed
FNB-V145LI-UNI	AAM41X501	

## CHARGER OVERVIEW

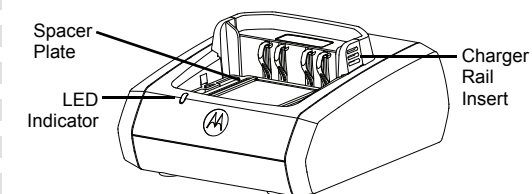



Figure 1: Charger Overview

## IMPORTANT SAFETY INSTRUCTIONS

This document contains important safety and operating instructions. 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) the radio using the battery.

- WARNING**  1. To reduce risk of injury, charge only the rechargeable Motorola Solutions authorized batteries listed in Table 2 and Table 3. Other batteries may explode, causing personal injury and damage.
- Use of accessories not recommended by Motorola Solutions may result in risk of fire, electric shock, or injury.
  - To reduce risk of damage to the electric plug and cord, pull by the plug rather than the cord when disconnecting the charger.
  - 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 of up to 100 ft (30.48 m), and 16 AWG for lengths up to 150 ft (45.72 m).
  - To reduce risk of fire, electric shock, or injury, do not operate the charger if it has been broken or damaged in any way.
  - Do not disassemble the charger – it is not repairable and replacement parts are not available. Disassembly of the charger may result in risk of electric shock or fire.

- The presence of nearby RF transmission can cause the LED of the charger to inadvertently flash or change color. This does not impact the charging process of the docked radios and/or batteries (also exhibited at empty slots), and will cease once the RF signal is no longer detected.
- Periodically wipe the charging terminals in the nest of the charger using a dry cloth to ensure good connections between the charger and battery pack.
- Do not allow any metal objects to short the terminals in the nest of the charger or the battery, as a short-circuit can cause overheating of the charger circuitry, creating electrical hazard.

## PRODUCT SPECIFICATIONS

**Table 1: Specifications**

Description	Value
Charging Current	1 A
Charge Time	1.5–4.5 hours (depending on the battery)
Operating Temperature Range	+41 °F to +104 °F (+5 °C to +40 °C)
Case Size (W x H x D)	4.1 x 2.2 x 4.3 in. (104 x 57 x 108 mm)
Weight (approximation)	6.2 oz (175 g) Spacer Plate: 0.3 oz (9 g)

## MOTOROLA SOLUTIONS AUTHORIZED POWER SUPPLIES

**Table 4: Motorola Solutions Authorized Power Supplies (16 W)**

Part Number	VXSTD Part number	Description
PA-55B	AAJ71X502	Power Supply, 16 V/1 A, US
PA-55C	AAJ71X503	Power Supply, 16 V/1 A, EU
PA-55U	AAJ71X504	Power Supply, 16 V/1 A, UK
PA-55F	AAJ71X505	Power Supply, 16 V/1 A, Argentina
PA-55G	AAJ71X506	Power Supply, 16 V/1 A, China
PA-55H	AAJ71X507	Power Supply, 16 V/1 A, Australia
PA-55K	AAJ71X508	Power Supply, 16 V/1 A, Brazil
PA-55D	AAJ71X509	Power Supply, 16 V/1 A, India

**Note:** Requires barrel adapter CN001353A01 when used with the charger.

**Table 5: Motorola Solutions Authorized Power Supply (90 W)**

Part Number	Description
PS000242A03	100–240 VAC Power Supply Adapter, 15 V/6A

## LED INDICATION

**Table 6: LED Indication**

LED Indication	Status
Blink Green Once	Charger powers up
Steady Red	Rapid charging
Blinking Red	Charge Error: Reinsert the battery. If the LED continues blinking, the battery is faulty. Replace a new battery for the radio.
Blinking Green	Charging nearing completion
Steady Green	Charging complete
Blinking Orange	Charge Waiting: 1. Either the battery voltage is too low or the battery temperature is too low or too high to allow charging. When this condition is corrected, the charger automatically begins charging. 2. Charging new or emptied Ultra-High-Capacity batteries. After a few minutes, the LED changes to blinking red. Remove and reinsert to get another recovery period. This procedure may need to be repeated for a few times.

### GANGING THE CHARGERS

You can gang up to a maximum of six chargers. Charging does not function on the seventh charger onwards. Hold both ends of the ganged chargers when moving them from one place to another.

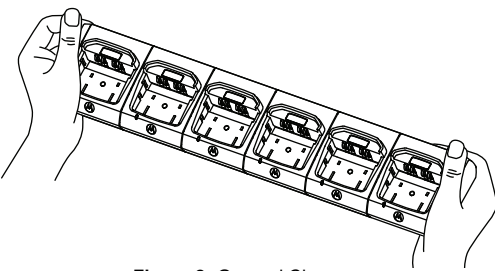


Figure 2: Ganged Chargers

1. Remove the dust covers by peeling it off at the finger peeling area.

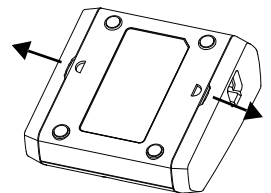


Figure 3: Removing Dust Covers

2. Gang two chargers by connecting the male connector on one charger to the female connector on another charger. The four catches on one charger are hooked on to the four opening on another charger.

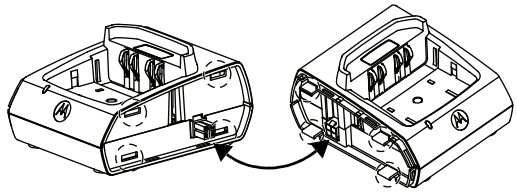


Figure 4: Ganging the Chargers

### UN-GANGING THE CHARGERS

1. Bend the ganged chargers upward to un-gang.

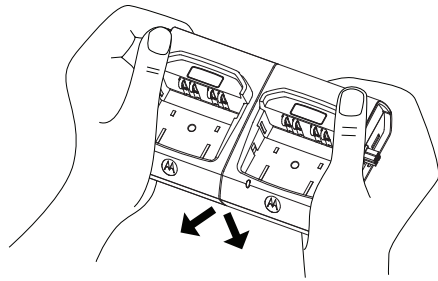


Figure 5: Un-ganging the Chargers

2. Attach the dust covers to the charger.

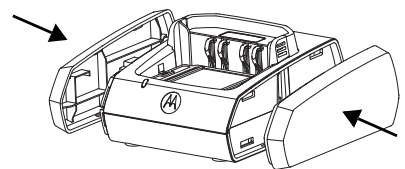


Figure 6: Attaching Dust Covers

### OPERATING PROCEDURES

**Note:** See Table 2 and Table 3 for the combination of Charger Rail Insert and Spacer Plate for your battery. Insert the Charger Rail Insert followed by the Spacer Plate. Inserting the Spacer Plate first will block the Charger Rail Insert.

#### Inserting Charger Rail Insert and Spacer Plate

1. Insert the Charger Rail Insert into the pocket of the charger.

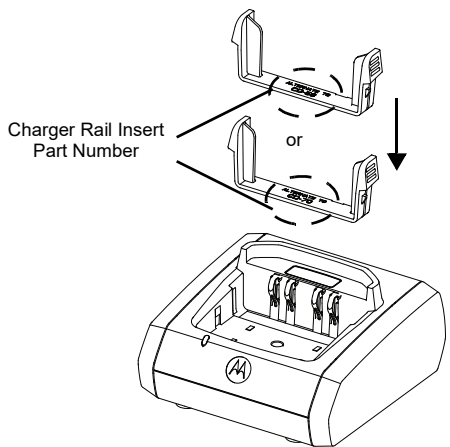


Figure 7: Inserting the Charger Rail Insert

2. Insert the Spacer Plate into the pocket.

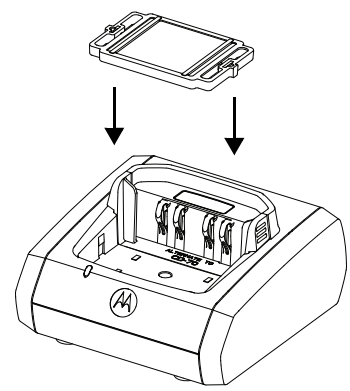


Figure 8: Inserting the Spacer Plate

#### Removing Spacer Plate and Charger Rail Insert

1. Insert the tip of a pair of plastic tweezers into the groove of the Spacer Plate.
2. Lift the Spacer Plate to remove it.

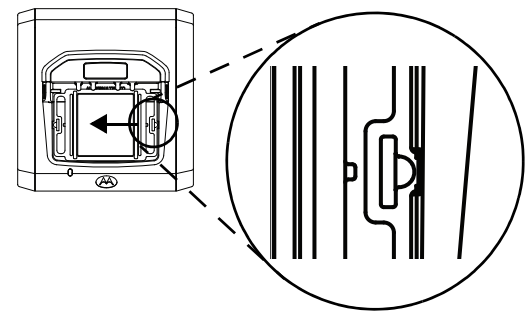


Figure 9: Groove in Spacer Plate

3. Pinch the sides of the Charger Rail Insert, then pull upward to remove it.

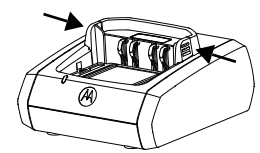


Figure 10: Removing the Charger Rail Insert

### Charging Procedures

Charge battery by itself or when attached to a radio.

1. Depending on the configuration of your charger, insert the barrel adapter or power supply adapter into the female connector of the charger.

**Note:** Do not use the 16 W power supply for gang configuration.

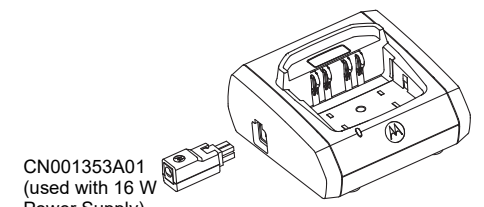


Figure 11: Connecting Barrel Adapter to Single-Unit Charger

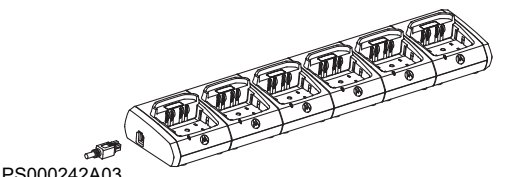


Figure 12: Connecting Power Supply to Charger (supports a maximum of six ganged chargers)

2. Connect the AC adapter to the AC line outlet. Upon successful power-up, the LED indicator blinks green once.
3. Insert the radio or stand-alone battery into the pocket. When the radio or stand-alone battery is properly seated in the pocket, the red LED lights up.

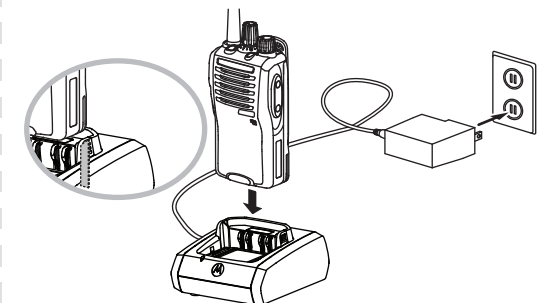


Figure 13: Inserting Radio into Charger Pocket

4. The radio or stand-alone battery is ready for use when the LED is steady green.
5. Remove the radio or stand-alone battery from the charger, then unplug the AC adapter from the AC line outlet.

Motorola Solutions Germany GmbH  
Am Borsigturm 130  
D-13507 Berlin  
Germany

