



W0AEZ

BP-Y14L v6 User Guide

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What is the BP-Y14L?

The BP-Y14L is a handcrafted, aftermarket battery to provide more battery life and convenient USB-C charging for the Yaesu FT-1, FT-2, FT-3 and FT-5 series of HT radios. It is printed out of ABS plastic and hand assembled in Colorado.

Specifications

Capacity: 5.0 Ah

Run Time: 34 hours typical for RX only.

Charge Time: 4 hours typical using USB-C port.

Charge Method: Integrated USB-C port or through the radio.

BMS Protections: Short circuit, over discharge, over charge, cell balancing.

Other Notes: Cells are user serviceable. Outer shell is replaceable (v5 inserts are forward compatible with v6 shell).

Printed Material: ABS plastic. Deforms at temperatures above 175f.

How to use the battery

Usage of the BP-Y14L is straight forward. There are no buttons, switches or levers to use. Simply install the battery, and turn on your radio.

How to install the battery into the radio

Line up the bottom of the battery with the bottom of the radio. At a slight angle, insert the bottom of the battery into the radio. Bring the battery closer to the radio, and press it into the locked position. You should hear a soft pop or click as the battery locks into the radio.

How to remove the battery from the radio

Gently push the battery into the radio. Using one finger for each locking tab, gently pull them toward the main body of the radio. While keeping the locking tabs bent, remove the battery from the radio.

How to service your BP-Y14L v6

Separating the outer shell from the insert

Removing the insert from the outer shell requires a small flat head screw driver. You will gently push up on the USB port, and gently pry up on the insert closest to the locking tabs. (See image 1.1 and 1.2) Carefully 'walk' out the insert until it is fully removed.

Replacing the battery cells

Remove the tape retaining the battery cells. Remove the cells. Pay considerable attention to battery polarity. There is no protection from a improperly installed cell. Insert the cells into the open slot. The color of the wires closest to the USB charging port will indicate battery polarity. **Improperly installed cells can lead to a fire or a damaged radio.**

Installing the insert

Make sure to orientate the insert's USB port with the hole on the bottom of the shell. Carefully slide the insert into the shell.

Image 1.1



Gently lift on this area.

Image 1.2



Pry along this edge to remove the insert.

Troubleshooting

Battery pack does not have power	The battery pack fully depleted The BMS(Battery Management system) has gone to sleep	Charge the battery pack
The battery pack will not charge No LED are on when plugged in	Charging module is not getting power	Verify charging method Try a different USB cable
Battery has poor runtime	Battery is not fully charged Cells are reaching end of life	Fully charge the battery. Wait until charge module indicates fully charged. Replace cells
Battery pack has flashing LED	The charge module detected an error with the charger being used.	Try using a different USB cable or power brick.

Thanks

I want to say thank you to the ham community, and those who provide their support. The community is why I make the things I do, and it gives me a fun and productive way to stretch my creative and tinkering self.

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73 de WØAEZ



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