

# MRB-M4 Replacement Li-ion Battery with Quick Charge capability

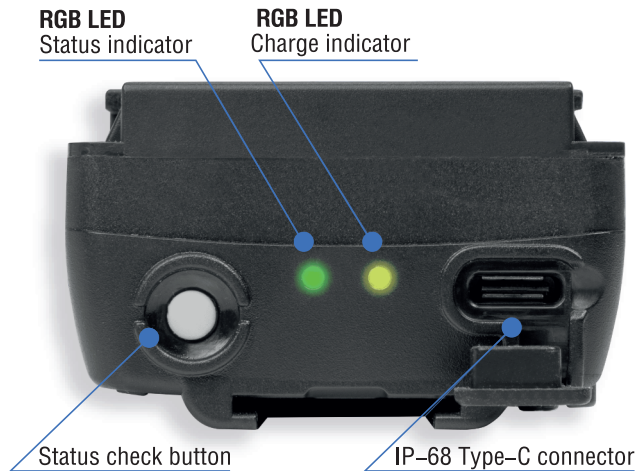


- Stay connected: up to 38 hours on a single charge
- Charge quickly: 90% capacity in just 90 minutes
- Never lose control: charge your radio without turning it off
- Stay autonomous by charging on the go, even with a power bank

Our radio battery gives you the power and freedom to stay connected wherever you are.

## Areas of usage

RigExpert © MRB-M4 Replacement Li-ion Battery designed for use with Motorola DP4400, DP4600, DP4800, DP4401, DP4601, DP4801, DP4000e, DP2000e VHF and UHF portable radios.



## General specifications

Output voltage	7.4V
Capacity	4950 mAh
Maximum charge current	3.0A
Nominal charge current*	2A
Dimensions**	113,6 x 55,2 x 33,9 mm (4,5 x 2,2 x 1,3 inches)
Weight	206 g (7,3 Oz)
Expected Cycle Life	Expected Cycle 500 cycles ≥ 80% (@+25°C and nominal charge/discharge conditions)

\*The nominal charging current is preferred to save the battery life.  
\*\*MRB-M4's dimensions fit exactly into the portable radio's mounting clamps.

## Charging

MRB-M4 is charged via USB Type C connector from any device equipped with USB port like powerbanks, etc.

This eliminates the need in special 127/220V AC or Car Travel chargers which is important during the field operations.

There's no need to disconnect the battery from HT to charge it. MRB-M4 can be charged when HT is in use. When not in use, USB Type C connector is protected by the rubber stopper.

MRB-M4 has both status and charge RGB LED indicators.

RGB LED indicates the level of battery charge as follows:

- blue – full charge, battery voltage 7.68 to 8.48 V;
- green – average charge level, battery voltage 7 to 7.68 V;
- red – low charge level, battery voltage 6 to 7 V;
- RGB LED is not illuminating – critically low charge level less than 6V.

Yellow status LED indicates the charging state as follows:

- LED illuminates – battery charging continues;
- LED is not illuminating – no charge or battery is fully charged as indicated by the blue RGB LED.

Both LEDs are switched on by pressing the Status Check Button

MRB-M4 achieves 90% of its capacity after 90 minutes of charge by nominal charging current.

EMI shielding reduces RF noise during charging.

## Operation

Having output voltage of **7.4V** and maximum rated capacity of **4950 mAh**, MRB-M4 Li-ion battery allows to use the HT radio in receive mode for up to **38 hours**.

This battery is manufactured in accordance with IP68 IP rating that effectively prevents dust, dirt and water to permeate into the battery case.

MRB-M4 Li-ion battery has no memory effect and requires no maintenance.

## Operational Cautions

- DO NOT attempt to open the battery case to repair or replace the Li-ion battery cells. If the battery pack is dead, recycling by authorized personnel is recommended.
- DO NOT operate radio communications equipment in hazardous areas unless it is certified as intrinsically safe. This could result in unsafe condition in hazardous areas.
- DO NOT operate an approved intrinsically safe radio unit in hazardous areas if it has been physically damaged (for example, cracked housing, water intrusion, damaged antenna). The intrinsic safety rating will be compromised and could result in unsafe condition in hazardous areas.
- DO NOT remove or replace batteries, antennas, or accessories in hazardous areas. Contact sparking may occur and could result in unsafe condition in hazardous areas.

