

BATTERY CHARGING

◇ Rapid charging with the supplied BC-213

The BC-213 DESKTOP CHARGER rapidly charges the Li-ion battery pack.

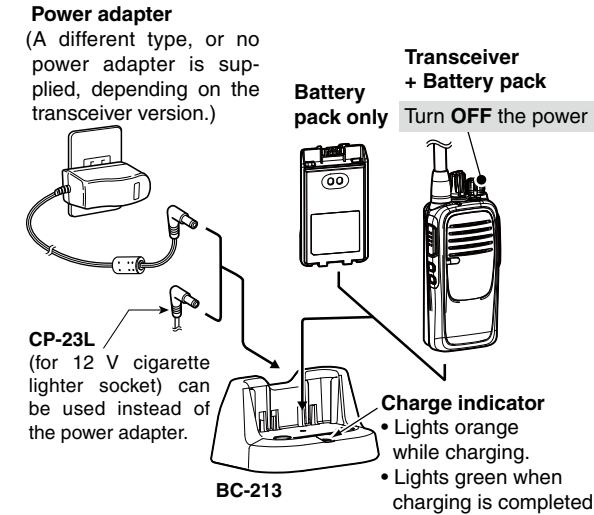
The BC-213 is used with the power adapter or the CP-23L CIGARETTE LIGHTER CABLE (purchase separately).

• Charging time of the BP-279

Approximately 2 to 3 hours

CAUTION: STOP charging if the charge indicator lights orange and green alternately. This indicates charging failure is occurring.

NOTE: Charge the battery within the specified temperature range of +10°C to +40°C. Otherwise, the charging time will be longer, but the battery will not reach a full charge. While charging, at a point where the temperature goes out of the specified range, the charging will automatically stop.



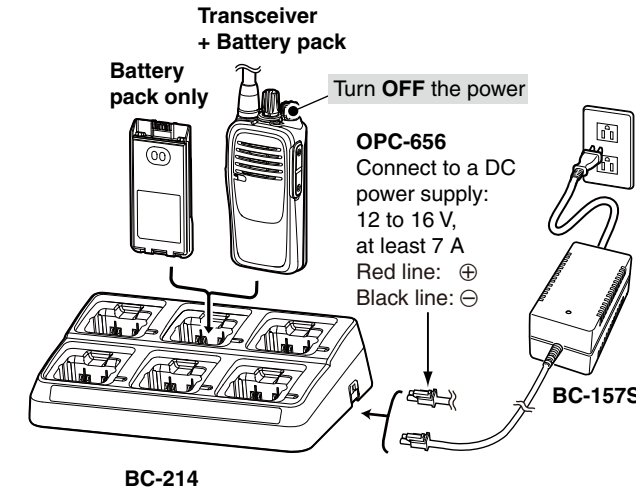
◇ Rapid charging with the BC-214

The BC-214 MULTI CHARGER* can simultaneously charge up to 6 Li-ion battery packs.

The BC-214 is used with the BC-157S AC ADAPTER or the OPC-656 DC POWER CABLE (Purchase separately).

• Charging time of the BP-279

Approximately 2 to 3 hours



ICOM

INSTRUCTIONS

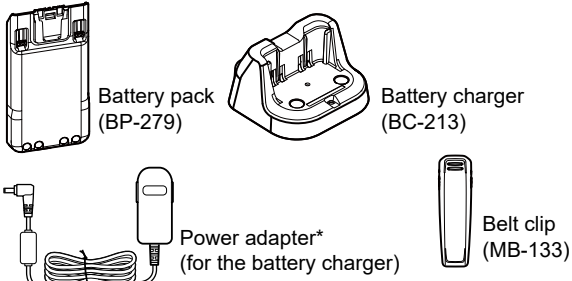
PMR446 TRANSCEIVER

IC-F29SR

Thank you for choosing the IC-F29SR PMR446 TRANSCEIVER.

READ ALL INSTRUCTIONS carefully and completely before using the transceiver.

SUPPLIED ACCESSORIES



* Not supplied, or the shape is different, depending on the transceiver version.

For accessory attachment details, download the IC-F29SR operating guide from the Icom web site.
(<https://www.icomjapan.com/support/>)

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PANEL DESCRIPTION

*Other functions can be assigned to these keys with the CS-F29SR cloning software (purchase separately).

[ROTARY SELECTOR]
Rotate to select the memory channels.

[PTT]
Hold down to transmit, and release to receive.

Microphone

[Upper]*/[Lower]*
[Upper]: Push to make a Smart-Ring call.
Hold down to make a Call-Ring call.
[Lower]: Hold down to cancel the CTCSS (DTCS) mute.

Antenna

[VOL]
Rotate to turn the power ON or OFF, and to adjust the audio level.

[TOP]*
Push to turn the Channel Announce function ON or OFF.
• The transceiver announces the position of [Rotary Selector].

LED INDICATOR

- Lights red while transmitting.
- Lights green while receiving a signal, or when the squelch is open.
- You should charge the battery when the indicator slowly blinks green.
- You must charge the battery when the indicator quickly blinks green.

SPEAKER-MICROPHONE JACK
Connect an optional speaker microphone.

Speaker

BASIC OPERATION

◇ Turning ON the power

Before using the transceiver for the first time, the battery must be fully charged for optimum life and operation.

➡ Rotate [VOL] to turn ON the power.

◇ Receiving and Transmitting

• Receiving

- ① Rotate [ROTARY SELECTOR] to select a channel.
- ② When receiving a call, rotate [VOL] to adjust the audio output to a comfortable listening level.

• Transmitting

Wait until the channel is clear to avoid interference.

- ① While holding down [PTT], speak at your normal voice level.
- ② Release [PTT] to receive.

NOTE:

To insure the readability of your signal:

1. After pushing [PTT], pause briefly before you start speaking
2. Hold the microphone 5 to 10 cm from your mouth, and then speak at your normal voice level.

For more information, download the IC-F29SR operating guide from the Icom web site.
(<https://www.icomjapan.com/support/>)

◇ Call-Ring operation

Sends the preselected ring tone of your group members.

• Call your group members with a Call-Ring

- ① Set the same operating channel and CTCSS tone for all of your group transceivers.
- ② Hold down [Upper] for 1 second to send the preselected ringer to your group members.
 - The ringer sounds while holding down [Upper].
 - The same ringer sounds from your group members' speaker.

◇ Smart-Ring operation

This function has an answer back feature. You can confirm whether or not a call has reached your group members, even if the operators are temporarily away from their transceivers. The called transceiver automatically sends an answer back call to your transceiver.

- ① Set the same operating channel and CTCSS tone for all of your group transceivers, as described on the reverse side of this sheet.
- ② Push [Upper] to make the Smart-Ring call.
 - When an answer back is received, the transceiver sounds beep tones every 10 seconds and the LED indicator blinks orange.
 - Push [Lower] to stop the beeps and the LED blinking.
 - When no answer back is received, the transceiver sounds short failure beeps.
- ③ Push [PTT] to answer the call and stop the beeps and blinking.

NOTE: This function is usable only when the called stations' transceivers are set to the same CTCSS tone and operating channel.

OPTIONS

◇ BATTERY PACKS

• BP-278/BP-279/BP-280 BATTERY PACK

Battery pack	Voltage	Capacity	Battery life*
BP-278	7.2 V	1130 mAh (minimum) 1190 mAh (typical)	16 hours
BP-279		1485 mAh (minimum) 1570 mAh (typical)	21 hours
BP-280		2280 mAh (minimum) 2400 mAh (typical)	33 hours

* When the power save function is turned ON, and the operating periods are calculated under the following conditions:
TX:RX:standby = 5:5:90

◇ CHARGERS

- **BC-213** DESKTOP CHARGER + **BC-123S** AC ADAPTER
- **BC-214** MULTI CHARGER + **BC-157S** AC ADAPTER

◇ DC CABLES

- **CP-23L** CIGARETTE LIGHTER CABLE
For BC-213.
- **OPC-656** DC POWER CABLE
For BC-214.

◇ OTHERS

- **MB-130** VEHICLE CHARGER BRACKET
- **MB-133** BELT CLIP

• HM-158LA, HM-159LA, HM-168LWP

SPEAKER MICROPHONE

Adjust the microphone gain before use.

• HM-153LA, HM-166LA EARPHONE MICROPHONE

HS-94LWP, HS-95LWP, HS-97 HEADSET

+ VS-4LA PTT SWITCH CABLE

/OPC-2004LA ADAPTER CABLE

HS-94LWP: Ear-hook type (waterproof)

HS-95LWP: Neck-arm type (waterproof)

HS-97: Throat microphone

VS-4LA: To connect headset and for PTT use

OPC-2004LA: To connect to headsets for VOX operation

Adjust the both microphone and VOX gain before use.

Some options may not be available in some countries. Ask your dealer for details.

Approved Icom optional equipment is designed for optimal performance when used with an Icom transceiver. Icom is not responsible for the destruction or damage to an Icom transceiver in the event the Icom transceiver is used with equipment that is not manufactured or approved by Icom.

CHANNEL FREQUENCY LIST AND TECHNICAL INFORMATION

◇ Channel List

Channel	Frequency (MHz)	C.Tone*1
1	446.006250	No setting
2	446.018750	No setting
3	446.031250	No setting
4	446.043750	107.2
5	446.056250	110.9
6	446.068750	114.8
7	446.081250	118.8
8	446.093750	123.0
9	446.006250	127.3
10	446.018750	131.8
11	446.031250	136.5
12	446.043750	141.3
13	446.056250	146.2
14	446.068750	151.4
15	446.081250	156.7
16	446.093750	159.8

*1 CTCSS tone or DTCS code can be programmed manually. Ask your dealer for details.

◇ Technical Information

Frequency coverage	446.006250~446.093750 MHz
Output power	0.5 W
Dimensions (projections not included)	52.2 (W) × 186.1 (H) × 24.5 (D) mm (with BP-279)
Weight (approximate)	240 g (with BP-279)
SAR 10g	Estimation 0.5 W/kg