

IC-M600

HF Marine Transceiver



State-of-the-art innovation

ICOM has made long-distance marine communications easier than ever before with the compact, rugged and type-approved IC-M600 HF transceiver.

Simple to operate

Frequencies and memory channels can be accessed quickly and easily with the main dial or keypad. All functions are readily accessible via the front panel keypad and shown on the large backlit function display.

150 Watt output power

The IC-M600 packs a full 150W PEP (for 25.0000~26.9999MHz: 60W PEP), of output power to ensure reliable, readable communications. In addition, 60W and 20W PEP of low output power is selectable for shorter distance transmissions

Compact size

The IC-M600 measures only 287(W) x 90(H) x 233(D) mm, (11.3(W) x 3.5(H) x 9.2(D) inches) and is small enough to fit in any sailing or power boat.

99 memory channels

Store your most-used frequencies in the 99 memory channels for quick selection. Memory channels store transmit and receive frequencies plus operating mode.

General coverage receiver

With a frequency range of 0.5~30.0MHz in 100Hz steps, you can listen to broadcasting stations from all around the world.

Other excellent features

- SSB and AM modes.
- One-touch 2182kHz emergency call access.
- ICOM's original DDS (Direct Digital Synthesizer) system to provide clear and stable emissions.
- Individual ON/OFF switches for AGC, speaker and squelch.
- Independent clarity control.
- Excellent high frequency stability $\pm 20\text{Hz}$ in the $30^{\circ}\text{C}\sim 60^{\circ}\text{C}$ range.
- 314 I.T.U. Channels available.



Masters in Marine Electronic Communications and Navigational Equipment

SPECIFICATIONS

GENERAL

Frequency coverage.
Transmit (MHz)

: 2.0000~2.9999
4.0000~4.9999
6.0000~6.9999
8.0000~8.9999
12.0000~13.9999
16.0000~16.9999
18.0000~19.9999
22.0000~22.9999
25.0000~26.9999

Receive (MHz)

: 0.5000~30.0000
Mode : J3E (USB), H3E, R3E
Antenna impedance : 50Ω (unbalanced)
Power supply requirement : 13.6V ±5% DC
Current Drain, Transmit : 30A

Receive

(at max. output power)
: 2A
(at max. audio o/power)

Usable temp. range

: -30°C~+60°C

Frequency stability

: ±20 Hz (-30°C~+60°C)

Dimensions

: 287(W) x 90(H) x 233(D)mm
11.3(W) x 3.5(H) x 9.2(D)in
(projections not included)

Weight

: 6.0 kg; 13.2lb

Type-approved to

: MPT 1224

TRANSMITTER

Output power

: 2.0000~22.9999MHz
150, 60 or 20W (PEP)
25.0000~26.9999MHz
60 or 20W (PEP)
(selectable)

Spurious emissions

: 65dB below peak output power

Carrier suppression

: 40dB below peak output power (for J3E)

Unwanted side-band suppression

: 55dB below peak output power (1500Hz AF input)

Microphone impedance

: 600Ω

RECEIVER

Sensitivity (for 12dB SINAD)

J3E, R3E @ 0.5~1.8MHz : 6.3μV

J3E, R3E @ 1.8~30.0MHz : 0.5μV

H3E @ 0.5~1.8MHz : 30μV

H3E @ 1.8~30.0MHz : 3.16μV

Spurious response rejection: -70 dB

Audio output power : 5W with a 4Ω load

Audio output impedance: 4~8Ω

Clarity variable range : ±150Hz in 10Hz steps

OPTIONS

Icom offers a wide variety of options to suit your needs but please note that since type-approval for the IC-M600 varies between countries, some versions cannot use all the options listed below. Please check with your local Icom dealer for suitability.

ANTENNA TUNER AND ANTENNA MATCHERS

AT-120 HF Automatic Antenna Tuner

For non-commercial applications. Ideal for a small boat that cannot use a long antenna element. For example, the AT-120 automatically matches a 7m (23 ft) antenna along the 2~27 MHz frequency range.

AT-120E HF Automatic Antenna Tuner

(for commercial use)

MN-100, MN-100L Antenna Matchers

MN-100

: For a dipole or whip antenna.

MN-100L

: For a whip or long-wire antenna.

Frequency range

: 1.5~30.0 MHz

Max. feed-through power : 200 W (PEP)

MICROPHONE AND HANDSETS

EM-48 Hand Microphone

Die-cast, weather-resistant microphone. The same type as supplied with the IC-M600.

HS-50 Handset Kit

Provides listening privacy on board.

POWER SUPPLY AND DC-DC CONVERTORS

PS-60 DC Power Supply

Suitable for a ship equipped with an AC outlet or for a coastal station.

Input voltage

: 100, 117, 220 or 240V AC

Output voltage

: 13.6V DC

Max. current

: 30A

OPC-302 ACC Cable

Allows connection of external equipment via the (ACC(2)) socket. Equipped with 7-pin DIN connector.

OPC-303 ACC Cable

Allows connection of external equipment via the (ACC(1)) socket. Equipped with 8-pin DIN connector.

UT-62 Alarm Unit

International Safety signal can be transmitted if the ship is in distress. (Fitted as standard to UK. version). For more details of accessories ask for separate leaflet

All stated specifications are subject to change without notice or obligations.

E&OE.


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