

Enhanced Vehicular Charger P7100^{IP}, P5100, and Jaguar™ 700P

*The Enhanced Vehicular Charger provides portable radio users with features similar to those of mobile radios. The unit rapidly charges the battery, and includes an external antenna, an external speaker, and a microphone for mobile-like operation. A dual position feature allows battery charging with a speaker microphone attached.**



Product Overview

Enhanced Vehicular Charger Features

The Enhanced Vehicular Charger is a rapid charger with the capability to charge high and extra high capacity batteries in approximately 1 hour. The charger is specific for each portable radio type (P7100^{IP}, P5100, and Jaguar 700P) and is independent from frequency or system operation. The charger includes the following features:

- **Positive Latch:** Ensures that the radio is securely in place while it is in the charger.
- **Radio Quick Release:** Disengages the radio from the charger for quick removal.
- **Versatile Mounting Options:** Enables the charger to easily fit different vehicle mounting requirements.
- **Automatic Restart:** Constantly monitors the battery while it is in the charger and will start charging the battery as soon as it falls below 75% of capacity.
- **Optimal Charging without Overcharging:** Provides microprocessor-controlled charging for long battery life and maximum battery performance. LEDs indicate battery charging status.
- **Protective Circuitry:** Prevents damage to battery resulting from charging batteries that are not within the required temperature or voltage range.
- **Dual Charge Rate:** Allows charge rate to be adjusted through dipswitch configuration.
- **Dual Charge Position:** Provides a second set of charge contacts so the radio can be inserted for battery charging while the speaker mic is attached.*
- **ON/OFF Volume Knob**
- **10 Watt Audio Amplifier and Speaker**
- **Mobile Microphone**
- **TNC Antenna Connector** for use with an external antenna
- **Option Button and Clear Button:** Located on the face of the charger, these buttons place additional radio features within reach while the radio is in the charger.
- **Weak Battery Operation:** Allows the user to transmit even with a weak battery.
- **Remote Control Capability:** Allows interface of a Hand Held Controller or fixed control head, providing full radio control and display while the radio is engaged in the charger.

For More Information

For more information about this or any other M/A-COM Wireless Systems product, call toll free in the U.S. 1-800-368-3277. From outside the U.S. call 1-434-455-9223 (Asia Pacific), 1-434-455-9229 (Latin America and Middle East), and 1-434-455-9219 (Europe).

*Requires special speaker mic. See specifications on back.

General Specifications

Applications:

For P7100^{IP}, P5100, and Jaguar 700P portables with high or extra high capacity battery

Source Voltage:

10.8 to 16.6 VDC, negative ground

Dimensions (L x W x H):

7.6 x 7.1 x 2.3 in.
(19.3 x 18.1 x 5.9 cm)

Construction:

Die cast zinc frame with a polycarbonate resin blend plastic radio sleeve

Color:

Black

Rated Audio Power:

<5% distortion @ 0.1 to 10W

Microphone:

Waterproof mobile mic with hookswitch

Dead Battery Power Supply:

7.5V ±0.3 VDC @ 2.5A load

Charge Currents:

1.5 or 0.75A

Mounting:

Standard: Cables, hardware, and U-shaped bracket for mounting above or beneath dash

Optional: Transmission hump mounting bracket

Temperature Limits:

Operating: -22 to +140°F (-30 to +60°C)

Charging: +40 to +113°F (+5 to +45°C)

Degradation of RX or TX FM Hum and Noise:

3 dB max degradation due to alternator noise

Dual Charge Position:

Use only speaker microphones that are designated specifically for vehicular charger compatibility. Using any other speaker mic attached to the radio will cause sever damage to the charger and/or speaker mic.

Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810E	Vibration	514.4 I CAT 1,3,8 & 10
	Shock	516.4 PI, II, III, IV, V, VI, & VIII
	Dust	510.3 PI
	Solar Radiation	505.3 PI & II, FIG 505.2-1
	Low Temperature	502.3 PI & II
	High Temperature	501.3 PI & II
	Operational Temperature	501.2 PII CAT A2 (Induced)
	Temperature Shock	503.3 Table 503.3-1
	Humidity	507.3 PI & II
	Low Pressure	500.3 PI & II
EIA	Temperature	EIA RS-316-B
	Supply Voltage	EIA RS-316-B
	Vibration	EIA RS-316-B USFS
	Humidity	EIA RS-316-B