

# VC3000 Charger

*The VC3000 Charger is a vehicle-mounted battery charger that supports Nickel Cadmium and Nickel Metal Hydride batteries for the P7200, P7100<sup>IP</sup>, P5100, P-801, and P-800 portables. This affordable and compact charger has adjustable charge and trickle current setting, and charges battery packs in about 1.5 hours.*



## Product Overview

### Standard Features

The VC3000 is a rapid charger with the capability to charge Nickel Cadmium (NiCd) and Nickel Metal Hydride (NiMH) high and extra high capacity batteries in about 1.5 hours. The charger is specific for each portable radio type and is independent from frequency or system operation. The charger includes the following features:

- Colored LEDs: Provide charging status.
- Positive Latch: Ensures that the radio or battery pack is securely in place while it is in the charger.
- 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 50 to 75% of capacity.

- Optimal Charging without Overcharging: Provides microprocessor-controlled charging for long battery life and maximum battery performance.
- 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 Trickle Rate: Allows trickle rate to be adjusted through dipswitch configuration.
- Repeater Control: The charger has an enable/disable circuit for use with a vehicular repeater. The vehicular repeater is enabled when the radio is removed from the charger.
- Ignition Sense: Unit is turned off when the ignition is turned off, preventing vehicle battery drain.

### Versatile Design

The versatile design of the VC3000 provides the flexibility to meet different users' needs. The charger can charge the battery with or without the radio attached and can also accommodate a radio with the speaker mic still attached.

The unit may be hard wired for permanent installation or powered using the optional DC cigarette lighter adapter for temporary in-vehicle installation. The VC3000 may also be used for desktop charging with the optional AC adapter.

### 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).

## General Specifications

### Applications:

For P7200, P7100<sup>HP</sup>, P5100, P-801, and P-800 portables with high or extra high capacity battery

### Source Voltage:

11 to 16 VDC, negative ground

### Dimensions (D x W x H):

#### With Bracket:

3.125 x 4.312 x 4.375 in.  
(7.94 x 10.95 x 11.11 cm)

#### Without Bracket:

3.125 x 5.125 x 5.437 in.  
(7.94 x 13.02 x 13.81 cm)

### Weight:

#### With Bracket:

13.0 oz (368g)

#### Without Bracket:

10.2 oz (289g)

### Construction:

Polycarbonate and ABS blend

### Color:

Black

### Charge Currents:

1.5 or 0.75A (switch selectable)

### Trickle Rate:

200 or 100mA (switch selectable)

### Mounting:

Cables, hardware, U-shaped bracket for mounting above or beneath dash, fuse, connector terminals for repeater control, and ignition sensor

### Temperature Limits:

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

Charging: +40 to +113°F (+5 to +45°C)

### Options:

Power Supply Kit: Includes AC Adapter and Cigarette Lighter Adapter

## Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810F	Vibration	514.5 I CAT 10
	Shock	516.5 PI
	Solar Radiation	505.4 PII
	Low Temperature	502.4 PI & II
	High Temperature	501.4 PI & II
	Temperature Shock	503.4
	Humidity	507.4 PI & II
	Low Pressure	500.4 PI & II

## Regulatory Specifications

Meets FCC Part 15

Industry Canada ICES-003

Automotive Directive 72/245/EEC – 95/54/EC:

e11 10R-023645



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