



VC4000 Charger Unity® XG-100P

VERSATILE CHARGING FOR MAXIMUM EFFICIENCY

The VC4000 Charger

- > Is a rapid charger
- > Is compatible with Lithium Polymer and Lithium Ion battery packs
- > Can be mounted in a vehicle or used as a desk charger



STANDARD FEATURES

The VC4000 is a rapid charger with the capability to charge Lithium Polymer and Lithium Ion batteries in 4 hours or less. The charger supports the Unity XG-100P portable and is independent from frequency or system operation. The VC4000 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 90% 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.
- > Charging Efficiency: Communicates with the battery's internal fuel gauge for optimal charging efficiency.
- > Repeater Control: 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 (Dipswitch configurable): Unit is turned off when the ignition is turned off, preventing vehicle battery drain.

VERSATILE DESIGN

The versatile design of the VC4000 provides the flexibility to meet different users' needs. The unit can charge the battery with or without the radio attached and can also accommodate a radio with the speaker mic and/or belt clip still attached.

The charger may be hard wired for permanent installation or powered using the optional DC cigarette lighter adapter for temporary in-vehicle installation. The VC4000 may also be used for desktop charging with the optional AC adapter.

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GENERAL SPECIFICATIONS

Applications:

Charges Lithium Polymer and Lithium Ion batteries for the Unity XG-100P

Source Voltage:

11 to 16 VCC

Dimensions (D x W x H):

With Bracket:

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

Without Bracket:

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

Weight:

With Bracket:

13.0 oz (368g)

Without Bracket:

10.2 oz (289g)

Construction:

Polycarbonate and ABS blend

Color:

Black

Charge Current:

1.5A

Mounting:

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

Temperature Limits:

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

Charging: +32 to +122°F
(+0 to +50°C)

Options:

Power Supply Kit:

Includes AC Adapter and Cigarette Lighter Adapter

RoHS Compliant



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COMPACT AND RUGGED DESIGN

ENVIRONMENTAL SPECIFICATIONS

STANDARD	PARAMETER	METHODS & PROCEDURES
MIL-STD-801G	Vibration	514.6 PI, CAT 4 & 24
	Shock	516.6 PI, IV, V, & VI
	Solar Radiation	505.5 PI
	Low Temperature	502.5 PI & II
	High Temperature	501.5 PI & II
	Temperature Shock	503.4
	Humidity	507.5 PI & II
	Low Pressure	500.5 PI

OPTION NUMBER

VC4000 for Unity XG-100P: XPCH4J

REGULATORY SPECIFICATIONS

FCC Certification:	Meets FCC Part 15
Industry Canada:	ICES-003
Automotive Directive:	72/245/EEC – 95/54/EC

10R-037621

Australian C-Tick Mark



Technical specifications are subject to change without notice. Products sales are subject to applicable U.S. export control laws.