

## The Tri-Chemistry Charger

- Is a rapid charger
- Is compatible with NiCd, NiMH, Li-Ion, and Li-Polymer battery packs
- Can be mounted on a wall or used as a desk charger



## Standard Features

The Tri-Chemistry Charger is designed to charge Harris' Nickel Cadmium (NiCd), Nickel Metal Hydride (NiMH), Lithium Ion (Li-Ion), and Lithium Polymer (Li-Polymer) portable radio battery packs. This unit is available as a rapid charger and is capable of charging up to six battery packs at a time. The charger can accommodate batteries used with the XG-75, P7300, P5500, P5400, P5300, and XG-25P radios.

The Tri-Chemistry Charger has an auto select built-in power supply and plugs directly into an AC power source. The charger is capable of charging most battery packs in approximately 1 to 4 hours.

There are no controls to operate or complicated procedures to follow. Simply plug in the charger and slide the battery or radio into an open bay. This setup allows users to maximize efficiency by charging a spare battery while using their radios in the field.

The charger may be located on a desk, other flat surface, or mounted on a wall.

## Intelligent Charging

The Tri-Chemistry Charger communicates directly with the battery. The battery allows tracking and storage of portable radio, battery, and charger system parameters, including:

- Battery identification by charger.
- Tracking of charge cycles.

## Advanced Capabilities

The charger includes the following advanced features:

- Automatic initial conditioning of NiCd and pre-conditioning of NiMH batteries.
- "Discharge before Charge" feature automatically "empties" the battery pack before starting the charge cycle. This feature helps to reduce the impact of shallow discharge profiles or memory effect. The feature requires service shop level adjustment via "Dip Switch" settings.

## Interchangeable Sleeves

Each charger is available with one or more interchangeable battery sleeves specifically created for a particular radio or series of radios: XG-75, P7300, P5500, P5400, P5300, and XG-25P. The sleeves are designed for easy insertion and removal, and allow for the insertion of either a battery pack alone or a battery attached to a radio. Each sleeve has spring-loaded electrical contacts to mate with the charging and thermistor contacts on the battery pack. They are designed for easy insertion into the charger base using guides in the base for self-alignment.

## Easy-to-Use Indicators

Microprocessors monitor the charge rate to compensate for hot or cold batteries, weak or defective batteries, and line voltage variations. Colored LEDs on the front panel provide useful charging status information and indicate when full charge is achieved.

## General Specifications

### Applications:

For XG-75, P7300, P5500, P5400, P5300, and XG-25P portables with NiCd, NiMH, Li-Ion, and Li-Polymer batteries

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

5.4 x 12.2 x 19.5 in.  
(137 x 310 x 495 mm)

### Weight:

17.2 lb (7.8 kg)

### Operating Temperature Range:

+41 to +104°F (+5 to +40°C)

### Color:

Gray/Black

### Voltage Source:

(Autoselect Switching Power Supply)  
96-264 VAC, 50/60 Hz

### Charge Current:

1.5A (for each charger)

### Power Consumption:

175 Watts

### Recharge Time:

NiCd	Approximately 1 hour
NiMH	Approximately 2 hours
Li-Ion	Approximately 4 hours
Li-Polymer	Approximately 4 hours

## Environmental Specifications

Standard	Parameter	Methods & Procedures
MIL-STD-810E	Low Temperature	502.2 PII
	High Temperature	501.2 PII
	Temperature Shock	503.2 PI
	Humidity	507.7
	Salt Fog	509.2 PI

## Regulatory Specifications

Meets FCC Part 15

CSA

UL

RoHS compliant

