

MODEL PDQ

# SERVICE EXPRESS 1/2 HOUR FAST CHARGER

The first patented 80 amp computer controlled service bay charger designed for speed and safety. Now the average automotive battery can be returned to service in 20 to 40 minutes at a minimum of 80% to 90% state of charge.

Super fast speed is made possible by Christie's patented exclusive 80 amp constant current control electronics which constantly monitors the battery to assure proper charging parameters and to detect and reject battery failure conditions which may prevent safe charging.

Minimize charge time; Maximize customer service; Reduce unnecessary warranties. Now you can get the car out of your bay and back on the road in record time.

- **"Good but Discharged" The Contradiction**

To most battery customers, a "good" battery means one which can operate his vehicle. A discharged battery will not crank the vehicle and therefore is not "good". Your customer may insist on a warranty replacement unless the battery can be charged and made "good" within a short waiting period.

- **Service in Under an Hour**

The "PDQ" is 4 to 6 times faster than conventional battery chargers. The expected charging time with the PDQ is 20 to 40 minutes for most batteries to reach at least a 80 to 90% state of charge. Larger or deeply discharged batteries will take longer.

- **Safe for In-Car Charging**

Computer controls assure that the "PDQ" is safe for in-car charging with no fear of overheating, overcharging, or vehicle or paint damage from corrosive gases or spilled acid.

- **Automatic Controls**

The "PDQ" is literally automatic. There are no controls to set and no meters to monitor. Simply connect the battery and turn on the power switch. Operation is simple and "user friendly." When finished, the "PDQ" will sound a horn and an indicator light will show that the charge is complete.

- **Safety Performance Features**

Temperature sensing assures proper regulation of hot batteries. Reverse Polarity Protection assures against damage to vehicle electronics. Internal failure diagnostics monitor charger components and warn of need for service.

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Patented Technology



MADE IN USA

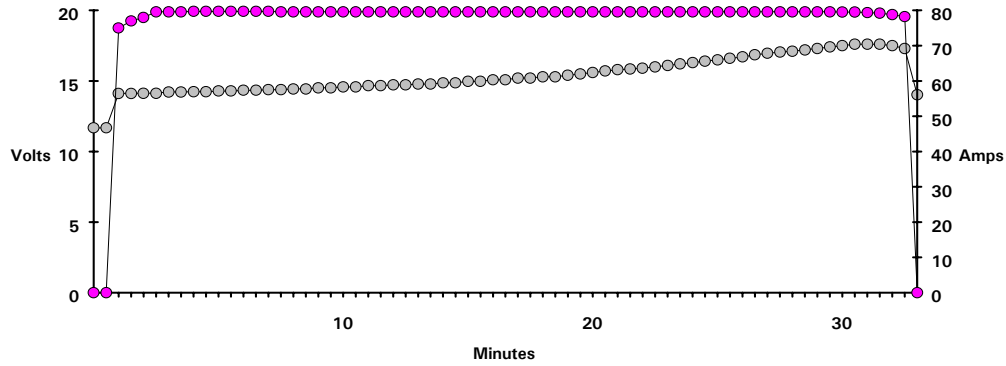
**CHRISTIE.**  
AUTOMOTIVE PRODUCTS  
**PROFESSIONAL DUTY BATTERY SERVICE EQUIPMENT**

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AUTOMOTIVE PRODUCTS

BATTERY SERVICE EQUIPMENT

**PDQ CONSTANT CURRENT CURVES**



**General:**

The PDQ Service Express Battery Charger is computer controlled for rapid battery charging speed.

The charger design is based on established charging principles regarding the capacity of good discharged batteries to safely accept high charge rates.

In order for the PDQ to provide high rate charging, the charger has extensive diagnostics to detect batteries in poor or defective condition and to terminate or reduce charging accordingly.

With the combination of diagnostics and high rate charging capacity, the PDQ can safely re-charge the average automotive lead-acid battery to 85% to 90% state of charge in 20 to 40 minutes.

**Operation and Control:**

When the power switch is turned on, the charger checks for correct connections; next it checks the battery state of charge and applies a load to the battery. During the period following the load, the charger looks for several battery fault conditions. If a fault is found, the yellow "charging stopped" light will flash and charging will not continue.

During the charging cycle, the charger monitors the energy received by the battery, the charging voltage and current, and the battery temperature rise. If the charging characteristics are normal, the charger will continue until the battery has reached a sufficient level of charge and the green "charge complete" light will come on.

When the yellow "charging stopped" light comes on, the charger has stopped short of a normal recharge, indicating that the battery should be tested before any further charging is done. In the case of very large batteries, very cold batteries, or batteries in a deep state of discharge, a second charge cycle may be appropriate after testing.

**CSA/URTL Certified**

<b>Electrical Specs:</b>	<b>Dimensions:</b>
<b>AC Input Power:</b>	Height 22 in.
120 Volts AC	(plus 19 in. handle)
20 amps AC	Width 14 in.
60 Hz.	Depth 12 in.
<b>DC Output Power:</b>	Wheels 8 in.
12 Volts DC (Nominal)	Weight 71 lbs.
17.5 Volts DC (Max)	
80 Amps DC (Max)	
(Constant Current Control)	<b>Warranty:</b>
	One year parts and labor