



# Electric Vehicle Charging



## Premium Parking for Electric Vehicles

Higher gas prices, government subsidies for cars, and a growing awareness of sustainability have all set the stage for an unparalleled surge in electric and plug-in hybrid vehicles. Major car manufacturers are producing or developing vehicles for this market at an escalating pace and these vehicles will need access to charging wherever they park.

## Installation Savings

Dual Level 2 "Quick Charging" cables on each Recharge Station™ cuts expensive electrical installation costs. Wall brackets or precast concrete pedestals provide quick and simple installation. Multiple communication options (Ethernet, Wi-Fi or Cellular Modem) provide flexible integration paths for configuring the Recharge Station™ with all Federal APD systems.

### Features

- Dual-vehicle 240V charging
- Anti-loitering features
- Installation savings per charge point
- Higher profits with lower operating costs
- Flexible Payment Methods
- Designed for Safety
- Remote Monitoring & Management

## Remote Monitoring and Management

Federal APD's Recharge Station™ is web based. This allows the operator/manager to monitor all activity on all of the facility's Recharge Stations™ through a single Web Portal that can be accessed from anywhere that Internet access is available. The system downloads customer updates and software upgrades automatically every night. The statistical on-line database allows you to monitor utilization patterns from your office or remotely.

## Designed for Safety and Survivability

Federal APD Recharge Stations™ meet all UL standards and compatible with all electric and plug-in hybrid vehicles sold in North America. They have been designed to meet the toughest outdoor weather rating available (NEMA 4X).



### Lower Cost

Lower acquisition costs and lower installation costs make Federal APD's Recharge Stations™ ideal for your parking operations.

### Anti-Loitering LED Light Band

Each Recharge Station™ is equipped with a highly visible and attractive light band that pulses once a customer has activated the charging option. This helps prevent drivers from tying up a premium space without paying for it.

### Flexible Payment Methods

Federal APD's electric vehicle Recharge Station™ offers flexible payment methods, allowing you to use your existing billing system. Integration with Federal's ScanNet eliminates duplicate credit card charges and monthly administration fees. The built in RFID Reader permits the use of "Courtesy" and "Reward" cards.

### Smart Recharge Stations

Recharge Stations™ communicate in "real time" with our cloud-hosted database via Ethernet Cable, WiFi or cellular modem. Reports can be generated for a single charging station or for entire facilities through the web portal.

### EV Safety Rated, GFCI Protected

Recharge Stations™ are protected by a special Certified Safety Circuit that will shut down power in the event of an unsafe condition. The GFCI circuit will automatically reset if the unsafe condition is resolved. Recharge Stations™ will also return to the operating condition that existed prior to any loss of power in the event of a power outage.

### On-Line Availability

Using [www.recharge-power.com](http://www.recharge-power.com), your customers and visitors can always find a Recharge Station™ and determine if it is available. Smart phone apps are available through Google® and other services that show charging stations that are located near a destination and provide driving directions to get to them. With Recharge Stations™, it's never a secret that your garage or lot offers electric charging or how to find your parking facility.

#### Charging Process:

##### [Customer Actions]

- 1) Patron pulls ticket upon entry
- 2) Patron parks in a "charging" space
- 3) Patron instructed by recharge unit to insert ticket
- 4) Upon exit, patron's ticket is read by payment device (PowerPad)
- 5) Patron pays fee and exits facility

##### [Automated Process]

- 1) Recharge unit parses the ticket data and communicates ticket # to back office server
- 2) Custom application sends ticket # information to ScanNet, creating on-line charge validation for ticket
- 3) PowerPad queries ScanNet
- 4) ScanNet responds with online validation data
- 5) PowerPad applies online validation to the ticket
- 6) Total fee is computed (charging + parking fees), creating a single transaction



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