

Project 6 - AMS Auto Charging EV System

An Automatic In-Motion Charging Technology for Electric Vehicles

Invented by Mr. Bealur Ramalingam Kaarthic

Project Overview

The AMS Auto Charging EV System is an advanced electric vehicle innovation designed to support automatic battery charging while the vehicle is running. The system is developed to improve EV driving range, reduce frequent charging-station dependency, and support cleaner, smarter electric mobility.

Unlike conventional EV charging methods that depend mainly on plug-in charging stations, this invention introduces an on-board automatic charging support system that assists the vehicle battery during travel.

The concept is designed for future-ready electric vehicles, fleet mobility, commercial EVs, and long-distance transport applications.

Core Innovation

- Automatic charging support while driving
- On-board EV energy support system
- Reduced dependency on external charging stations
- Intelligent battery charging assistance
- Compact and vehicle-friendly design
- Low-noise operating system
- Waterproof and all-weather suitability
- Safe and automated energy management
- Retrofit and OEM integration potential

System Function

When the EV is in motion, the AMS Auto Charging EV System assists the battery through an automatic charging support process. The system works as an auxiliary energy-support technology to improve battery availability and reduce charging interruptions during travel.

The system is intended to support continuous mobility, better range confidence, and improved energy efficiency for electric vehicles.

Key Advantages

- Charging while running - supports EV battery charging assistance while the vehicle is operating.
- Reduced charging dependency - helps reduce frequent reliance on external charging stations during travel.
- Range support - designed to improve EV usability by supporting longer driving distance capability.
- Smart energy management - uses controlled energy management for safer and more stable charging support.
- Compact and vehicle friendly - designed for practical integration into EV platforms.
- All-weather reliability - built for real-world automotive conditions including dust, rain, road vibration, and long-distance use.

Commercial Applications

- Electric cars

- Electric SUVs
- Electric taxis
- Electric buses
- Electric delivery vehicles
- Electric commercial vehicles
- Fleet mobility systems
- Smart city transport systems
- Long-distance EV platforms

Commercialization Opportunity

- Patent licensing agreements
- EV manufacturer partnerships
- Automotive retrofit partnerships
- Fleet EV efficiency programs
- OEM integration opportunities
- Clean mobility technology partnerships
- International EV innovation licensing

Important Technical Positioning

The AMS Auto Charging EV System should be presented as an auxiliary EV charging-support innovation requiring engineering validation, battery-system compatibility testing, safety certification, performance testing, and regulatory approval before mass commercial deployment.

Vision Statement

Charging support while driving - helping electric vehicles travel farther, cleaner, and smarter.