

The Basics of V2X

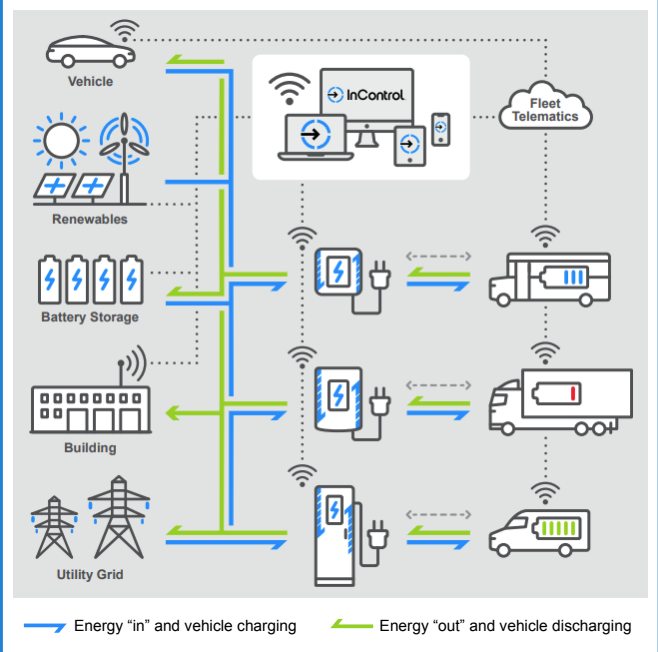
Vehicle to Everything (V2X) charging is a powerful technology that enables the charging and discharging of energy to and from compatible vehicles and to other external systems. This bidirectional energy flow allows EVs to act as both energy consumers and providers.

Encompassing V2G (Vehicle-to-Grid) and other technologies (see Key Applications of V2X, below right), V2X chargers offer a robust application of this technology, offering benefits that include: greater flexibility for energy use, more balanced energy demand, and to support renewable energy sources, while reducing grid strain. By allowing EVs to feed energy back to the grid or supply power to homes and businesses, V2X helps balance energy demand, reduce grid strain, and support renewable energy sources. V2X technology also provides cost savings by enabling energy storage to be used at times when prices are lower and to be stored or discharged to the grid or other systems during times of peak demand. V2X also offers backup power during outages, ensuring homes or businesses can remain operational even when the grid goes down.



ICE-66 V2X DC Fast charger (66kW, dual dispenser)

The InCharge V2X Solution



InCharge V2X chargers facilitate charging and discharging for compatible EVs; the process is streamlined via InControl™ Charge Management & Maintenance Software.

Key Applications of V2X

V2X charging enables all of the below use cases.

Vehicle-to-Grid (V2G)

Allows EVs to send stored energy back to the grid, helping to balance energy supply and demand.

Vehicle-to-Vehicle (V2V)

Enables one EV to transfer energy directly to another, utilizing the stored energy in vehicles not in use for vehicles that need power.

Vehicle-to-Building (V2B)

Allows EVs to power homes or commercial buildings improving energy efficiency and providing backup support in case of grid failure or high energy demand.

Vehicle-to-Load (V2L)

EVs can supply energy to power standalone devices or equipment, offering a flexible solution for remote areas or powering tools and appliances on the go.

V2X DC Fast Chargers

InCharge offers 3 ICE V2X DC Fast chargers.



ICE brand V2X DC Fast chargers offer wall-mounted and stand-alone options and range from 22kW to 66kW

ICE-22 V2X, ICE-44 V2X, ICE-66 V2X

Key Benefits

- Supports multiple discharge use cases, such as Vehicle-to-Grid (V2G) and Vehicle-to-Vehicle (V2V)
- Enables discharge of stored energy from EVs for other purposes as needed for potential cost savings and greater flexibility
- Contributes to grid stability and sustainability

Ideal Use Cases

- Fleets in areas with distributed energy resource programs or funding opportunities with V2X or V2G requirements
- Schools designated as emergency shelter locations, where the energy stored in electric school buses could be used to power the building in case of an outage

Get spec sheets and more at inchargeus.com/product-resources

Unlock the potential of V2X for your EV fleet.

833-772-4638 | hello@inchargeus.com