

Electric Vehicles & Power Supplies

EV CHARGING SYSTEMS

ELECTRIC CAR

120V First Level : 120V
Home Charging
Low Power Levels
Simple Wiring and Setup

2-5 Miles
of driving power
per hour charge


240V Second Level : 240V
Home & Workplace Charging
Mid Power Levels
More Complicated Wiring Setup

10-20 Miles
of driving power
per hour charge

DC Third Level : DC Fast Charging
Public Charging Stations
High Power Levels
Fast Charging Solution


180+ Miles
of driving power
per hour charge

ELECTRIC BUS & TRUCK

 Can Require 50-200kW
Need to Charge at Bus Depots
High Power Levels
Fast Charging Systems Available

180+ Miles
of driving power
per hour charge

ELECTRIC SCOOTER & BIKE

 Typically Need 24V-36V
Home or Street Charging
Low Power Levels
Simple Wiring Setups

~30 Miles
of operating power
per 2-12 hour charge

KEY FEATURES OF EV POWER SUPPLIES

WIDE TEMPERATURE RANGES **01**

HIGH EFFICIENCY **02**

HIGH ISOLATION **03**

LOW NOISE **04**

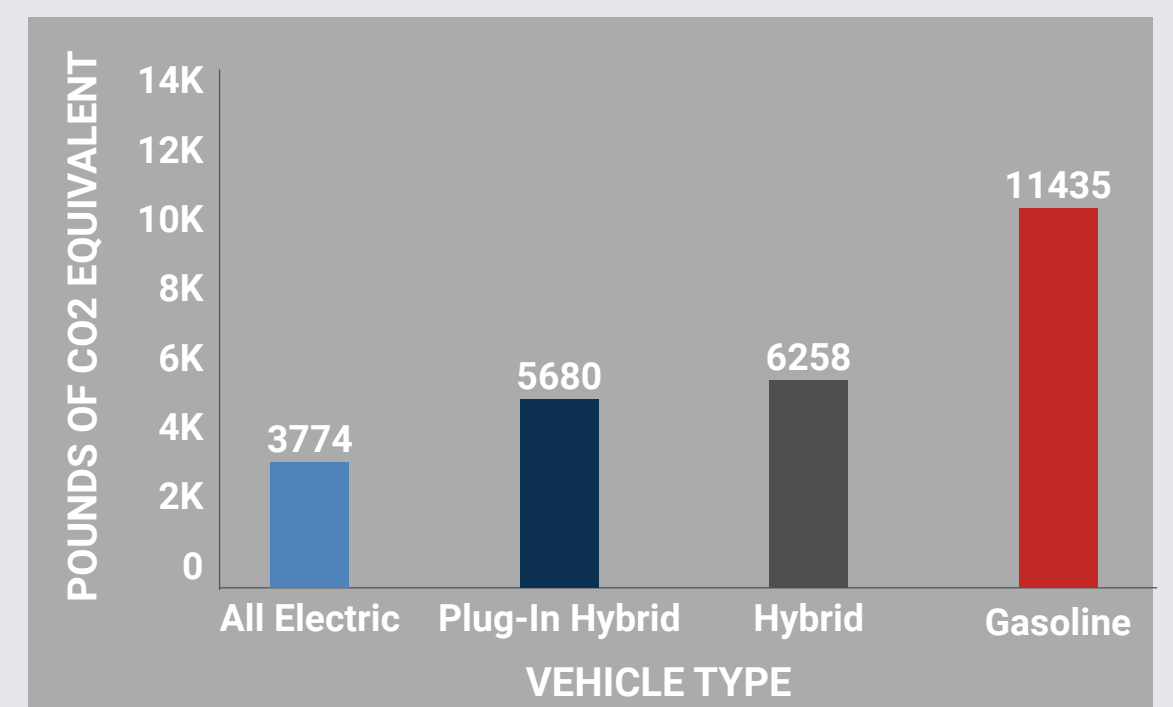
CONFORMAL COATING **05**

THERMAL PROTECTION **06**

HERMETIC SEALING **07**

SHORT CIRCUIT PROTECTION **08**

AVERAGE ANNUAL EMISSIONS PER VEHICLE



Graph Information via https://afdc.energy.gov/vehicles/electric_emissions.html

EVS HAVE HIGH VOLTAGE SYSTEMS RANGING FROM

100V - 600V

WALL'S EV PRODUCTS

AC/DC and DC/DC Units

Up to 3600 Watts

Bi-Directional Converters


Bulkhead Mount Battery Chargers


Through Hole Cases


Enclosed Cases


High Efficiency and High Isolation

EV APPLICATIONS


Electric Car


Electric Motorcycle


Electric Bicycle


Electric Bus


Forklifts


Electric Trucks