Sae j1772 outlet

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Buying an electric vehicle requires familiarizing yourself with the charging solutions available to you. For Tesla owners, a proprietary plug much like Apple"s Lightning is all they could use - except if they have an adapter (more on that later). For all other electric cars in North America, the J1772 connector, also known as the J Plug, is the standard.

You may be one of those EV drivers who opt for home charging. There are two types of chargers available for you: Level 1 and Level 2 chargers.

Level 1 chargers are included with your electric vehicle. These can be plugged into a standard wall outlet and come with SAE J1772 plug on one end and a grounded three-prong plug on the other. A level 1 charger can give you up to 140 miles of range for 20 hours of charging.

Level 2 chargers are sold separately from the electric vehicle but are a good investment as they can charge 3 to 7 times faster than Level 1 chargers. These have SAE J1772 connectors that are plugged into 240V outlets.

If you don"t mind shelling out a pretty penny, you can have a level 2 charger installed in your home, but most public charging stations like malls, supermarkets, and offices are now offering level 2 chargers either for free or for a minimal fee.

The SAE J1772 adapter or the J Plug, was the first of its kind to charge EV batteries using direct contact when everyone else was using a magnetic field. It was the California Air Resources Board that first adopted it as the standard for electric vehicles in California, and the rest of North America followed suit. What made the plug attractive to the board was how it could be plugged into the standard household outlet, allowing EV drivers to charge their electric cars in the comfort of their homes.

The first J1772 adapter was developed by Avcon and had a rectangular connector that can deliver up to 6.6 kW of power. Yazaki Corporation later proposed a more powerful 19.2 kW round connector which would be the predecessor of the modern J1772.

Yazaki"s design features a 5-pin layout for AC charging.

The three main pins connect AC Line 1 (L1), Neutral AC (N), and the Protective Earth (PE), aka Ground. The two smaller pins are Proximity Pilot (PP), aka "plug present" and the Control Pilot (CP), which serve as safety and communication point between the EV and the charging station.

A single-phase 120V J-plug operates at a maximum of 16 amps and can deliver up to 1.92 kW, while a split-phase 208V-240V plug has a maximum operating current of 80 amps and can deliver up to 19.2 kW.

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The J1772 connector can last up to 10,000 mating cycles (connection and disconnection). So, if you"re charging once a day, you can expect your Plug to last up to 27 years.

Level 1 chargers are the slowest type of EV charging connectors. Simply plug it directly into a standard AC wall outlet and it can deliver around 1.3 kW to 2.4 kW of power. An overnight charge can give you 30-50 miles of range, enough for a daily commute, while a full charge can take up to 24 hours.

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