Level 2 ev charger specifications

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If all EV chargers sold in the U.S. met ENERGY STAR requirements, the savings in energy costs would grow to more than $17 million and280 million pounds of greenhouse gas emissions would be avoided.

For short range driving and plug in hybrid cars: If you only drive less than 40 miles per day, or if you have a plug in hybrid car, you can use a charger that plugs into a standard wall outlet (120 volt). These chargers will provide you with 2-5 miles of driving range for every hour of charging. These chargers are convenient and economical, but are limited in their output and the charging rate is slow. Using industry terms, these are called "Level 1 EV Chargers."

For longer range driving and for fully electric cars: If you drive more than 40 miles per day, and you have a fully electric car, then you need a 240 volt charger. These chargers are larger and require professional installation, but provide 10-20 miles of charging range per hour of charging. Using industry terms, these are called "Level 2 Chargers".

Choosing a charger that has earned the ENERGY STAR label means energy savings, safety, convenience, and smart technology nd ENERGY STAR certified Electric Vehicle Chargers (AC-Output) and Electric Vehicle Chargers (DC-Output).

Energy Savings:EV chargers are typically in standby mode (i.e., not actively charging a vehicle) for about 85% of the time. ENERGY STAR certified EV chargers provide the same functionality as non-certified products but use 40% less energy in standby mode, reducing their impact on the environment. If you have the option, charging your EVwith green power (PDF, 172 KB), sourced from emissions-free electricity sources, offers additional environmental benefits.

Greater efficiency = more savings! When choosing an EV charger, it is helpful to note that Level 2 chargers provide higher charging efficiency and faster charging times when compared with Level 1 chargers. As shown in the table above, Level 2 charging is on average 10% more efficient than Level 1, while adding approximately four times more miles per hour of charging.

Safety:Not all EV chargers that are for sale are safety certified, including some from largeonline and storefront retailers. To ensure your charger meets safety standards, choose one that has earned the ENERGY STAR label.All ENERGY STAR certified chargers are tested for safety by a nationally recognized testing laboratory.

Smart Technology:Some ENERGY STAR certified EV charger models are connected, also referred to as networked, allowing for remote power monitoring and control of the charging state of the connected vehicle. These smart grid ready products may qualify households and property managers to participate in special energy bill savings programs that may be offered by some local electric utilities.

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EV owners ideally have access to overnight charging, in their driveway/garageor wherever they park their car. Without overnight charging, EV owners can charge at some workplaces, or use public charging.

Ask the dealer.Homeowners who are purchasing a new EV are typically offered a 120V charger (also called a cord set) as part of their vehicle purchase or lease, rather than having to purchase it independently. However, there are advantages to upgrading to a 240V charger, including faster charging times, which may be necessary to charge longer-range EVs overnight.When shopping for an electric vehicle, ask the dealer if they sell or work with electrical contractors that have ENERGY STAR certified EV chargers.

Ask the retailer. 120V and 240V EV chargers are sold by big-box and independent retailers, mainly online. Purchase an ENERGY STAR certified EV charger to ensure it meets key industry safety standards. Non-ENERGY STAR certified chargers may not be safety certified. In fact, many products sold by some major retailers may have false safety certifications displayed.

Hire a contractor.Contact a licensed electrician to evaluate whether your home"s wiring, electrical outlets, and other hardware can support the charging requirements of your EV. Your car dealer or the EV manufacturer may also recommend a third-party or contractor network that may be able to conduct a home assessment.

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Web: https://sumthingtasty.co.za/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346