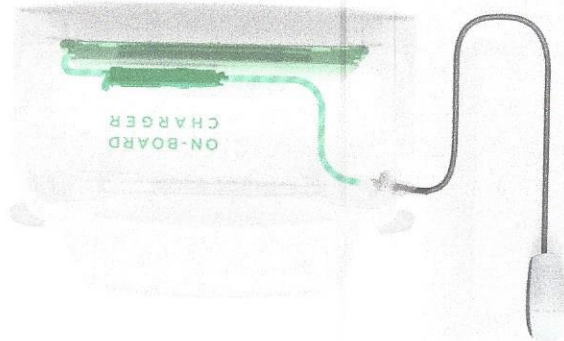


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Onboard Charger

When a **Wall Connector** or **Mobile Connector** plugs into the charge port it provides alternating current, also known as AC power, to your car. Batteries store energy as direct current, also known as DC energy.

The onboard charger, which is built in your car, handles this by converting the AC power into DC energy so that it can be stored in the battery.

Different Tesla cars have different onboard charger capabilities. The table below shows the circuit breaker which will provide the fastest charging speeds for each vehicle type.

Model	Onboard Charger	Recommended circuit breaker for max charge rate with Wall Connector
Model S Standard Range Model S Long Range Model S Performance Model X Long Range Model X Performance Model 3 Long Range Model 3 Mid Range Model 3 Standard Range	48 amp / 11.5 kW	60 amp circuit breaker
	32 amp / 7.7 kW	40 amp circuit breaker

Note: Tap the lightning bolt icon on the touchscreen to view the max amperage of your vehicle.

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