

# **Minimum power for outdoor power charging**





## Overview

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Which charger is best for outdoor use?

USA (UL 2202): Focuses on extreme weather (hurricanes, blizzards), pushing for IP66/IP67. China (GB/T 18487.1): Mandates IP54, but top brands offer IP65+. ✓ Standard outdoor chargers?

IP54/IP55 is enough. ✓ Coastal or high-rain areas?

Go for IP65+ to prevent salt/water damage. ✓ Extreme weather zones?

IP67/IP68 ensures reliability in storms/floods.

What sizing factor does a residential Charger need?

Most residential chargers are either Level 1 (120V) or Level 2 (240V), with Level 2 being what most customers actually want. NEC Article 625 covers Electric Vehicle Charging Systems. These are continuous loads requiring 125% sizing factor for circuit calculations. Here's the math you need to know.

How does a home charging station affect EV charging speed?

The power of a home charging station, measured in kilowatts (kW), impacts how quickly your EV can charge. This power is calculated by multiplying the voltage (V) by the amperage (A). In North America, Level 2 home charging stations are typically plugged into 220-240V outlets, making both voltage and amperage key factors in charging speed.

Do EV charging stations need a dedicated circuit?

Note that even if a commercial site has 3-phase electrical power, it may require some electrical upgrades to accommodate EV charging, especially if a site host installs multiple DCFCs. Per NEC 625, each charging station must have a dedicated circuit.



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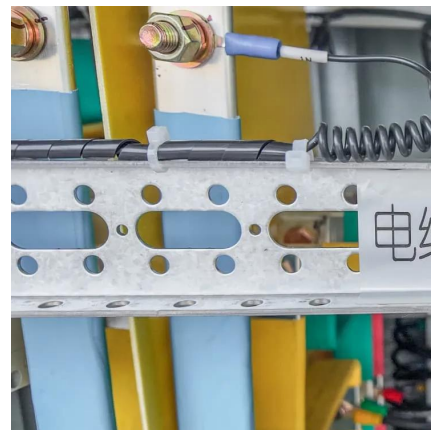


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