Deploying Multiple Chargers with Local Load Management

Equal Distribution

The IQ 200 makes local load management easier than ever, and it gives our Hosts two options for deployment.

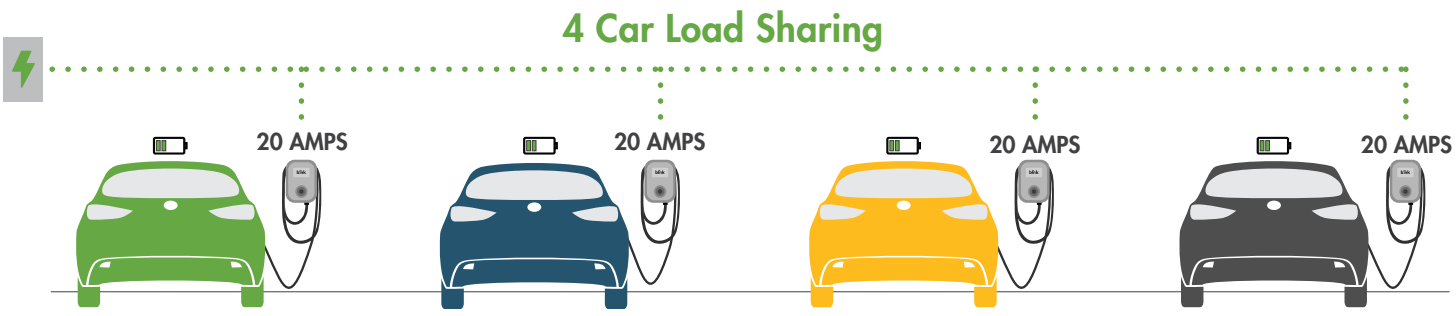
Dedicated Circuit per Charger

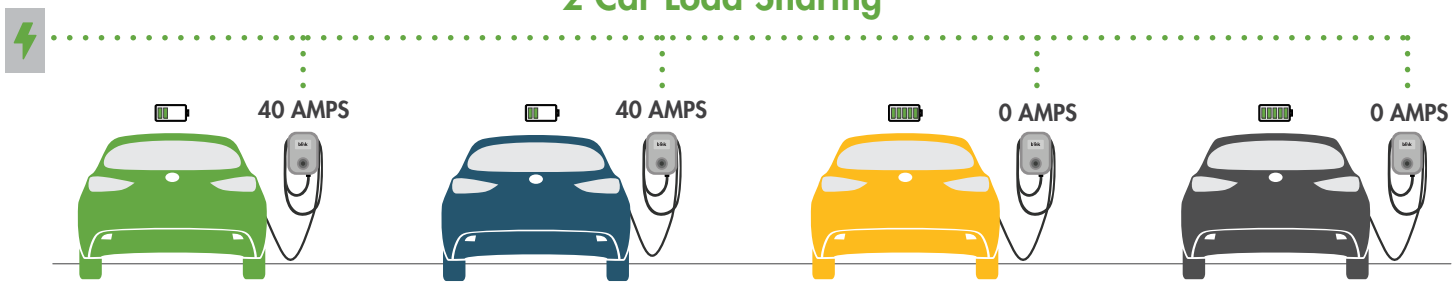
You can give each charger its own dedicated circuit, installed on a breaker sized 100 amp (80 amp output) to 40 amp (32 amp output). Once your EV chargers are installed, call our Blink Network Operation Center (NOC) to inform the technician the correct amperage for your circuit. Our tech will remotely program the charger to that amperage, and you are set!

Shared Circuit with Multiple Chargers (Load Share)

You can have your chargers share circuits! If you install each charger on a 100 amp breaker, those chargers will always put out 80 amps. If an electric vehicle cannot utilize the full 80 amps, the EV will take its maximum.

With local load management, up to 20 chargers can use one circuit, each charger equally splitting the 80 amps regardless of the vehicle's capacity. When one car finishes charging the remaining charge rate is split to those still charging.





Examples

If you have two chargers sharing an 80 amp circuit, and only one charger is being used, then that charger will receive the full 80 amps. If you have two chargers sharing an 80 amp circuit and both chargers are being used, each car will receive 40 amps. If you have 4 chargers on a circuit, and one is being used it will receive 80 amps, if two are being used, each receives 40 amps, if three are being used, each receives 27 amps, and if four are being used, each receives 20 amps.

Planning for the Future is Easy

Our IQ 200 is future proof! If you want to increase your amperage in the future, you don't have to buy new chargers—we can remotely download information to reprogram the chargers you already have installed. This is a helpful feature if your needs change.

Budget and Capacity

Due to budgets, electrical capacity, and infrastructure, it can be far more feasible to install multiple units on this load share method, than to provide 80 amps for every charger. This is especially advantageous for locations where EVs are frequently parked for multiple hours.

Budget Example

A site requires four charging stations; however, the site only has 100 amps of available power, and there is no budget to upgrade the electrical capacity. You can install each of the four chargers on their own breaker (to pull 20 amps each), however, the EV driver will have a poor experience with slow charging at your location. With load share, you can install all four on the same circuit and depending on how many units are being used, the chargers will dispense between 20 to 80 amps improving the experience for the EV driver.

Load Share is Less Expensive

Load share can also be an inexpensive way to add additional chargers on existing circuits without limiting the number of chargers that can be added. If you already run power from the electrical room to the charger location, you can easily add more chargers on that same existing circuit. Adding to the existing circuit avoids running additional conduit and wiring and eliminates the need for another circuit to accommodate the chargers.

The Blink team will gladly help you in determining the best circuit layout for each of your locations, based on how many chargers you need and how much power you have. We're here to help every step of the way!

If you have any questions, please don't hesitate to ask your sales executive.

Contact Host Support at (888) 998.2546 x2 or email hostsupport@blinkcharging.com.