

EV CHARGERS & POWER MONITORING

Power monitoring is key to the successful installation and operation of EV chargers!

APPLICATION



EV chargers are popping up all over. Like other loads, they must be safely installed, and they are susceptible to PQ problems. The supplied power needs to have the available capacity for the additional load(s) and the chargers may be susceptible to PQ problems. Charger uptime and reliability may also be affected by PQ problems resulting from the interaction of many chargers on the circuit.

PRE-INSTALLATION LOAD & PQ STUDIES

Load studies are often required to determine the available capacity when adding loads to existing feeders, circuits, etc. In the US, [NEC 220.87](#) studies are required to determine maximum demand data which can require a load study as long as 30 days. Regardless if you are in the US, the capacity of the circuit needs to be known before installing EV chargers and other loads.

EV chargers may also be susceptible to harmonics, voltage fluctuations and other PQ problems. A PQ study prior to installation may be needed to evaluate the quality of supply feeding the chargers to ensure their future uptime.

Dranetz solutions: [DranXperT](#), [METSyS](#), [HDPQ](#).

POST-INSTALLATION PQ EVALUATIONS

Why is a charger operating intermittently or is out of order? Like any load it could have failed, or it could be affected by PQ problems. PQ problems can originate from the utility, wiring problems, and even the interaction of many chargers on the same feed. PQ monitoring is key to determining if there is a power problem and determining the source.

Dranetz solutions: [DranXperT](#), [HDPQ](#), [PQ3000](#), [PQ5000](#)



DranXperT



METSyS



Dranetz HDPQ



PQ3000



PQ5000

TO CONTACT DRANETZ

- Call 1-800-372-6832 (US and Canada) or 1-732-287-3680 for Technical or Sales support.
- To submit a support request online, please visit: <https://www.dranetz.com/contact-us/>