

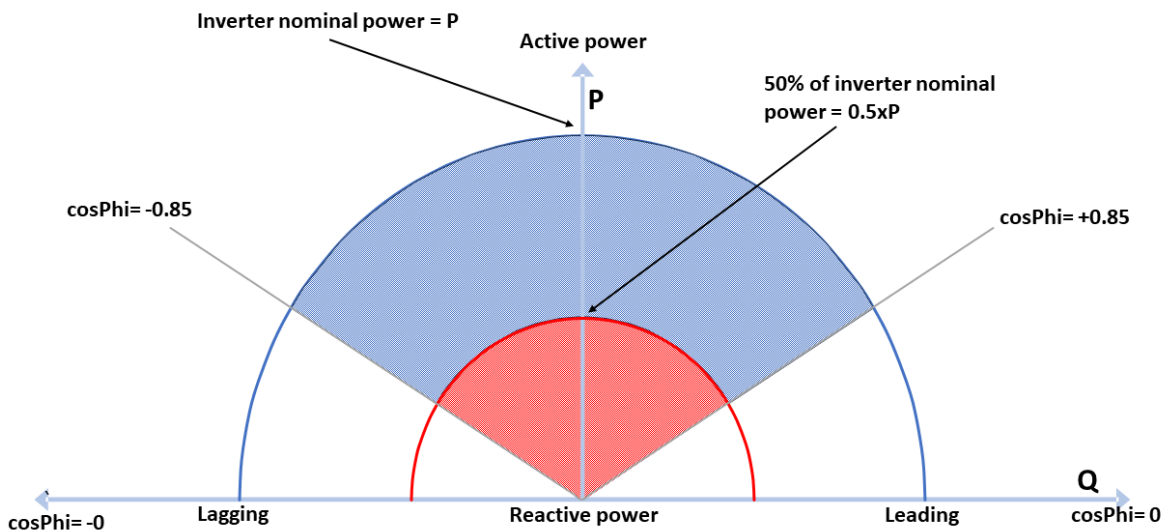
SolarEdge P-Q Diagram for Three-phase inverters – North America - Technical Note

Revision history

- Version 1.0, May 2024 – Initial release

This technical note is only applicable for North America, and specifically for inverters with part numbers of the form SExxK-USxxlxxxx. These SolarEdge commercial three-phase inverters can operate at different points in the graph below, depending on the ambient temperature.

For temperatures up to 50°C, the inverters can operate at any point in the blue and red areas, within the ± 0.85 power factor limits. For temperatures between 50°C and 55°C, the inverters can operate at any point in the red area, within the ± 0.85 power factor limits.



Where:

- P is the inverter active power (measured in W)
- Q is the inverter reactive power (measured in VAR)



IMPORTANT NOTE

The inverter power derates above 50°C. When the ambient temperature reaches 60°C the inverters cease operation and there is no power production.

For more information on SolarEdge products temperature derating, go to:

<https://knowledge-center.solaredge.com/sites/kc/files/se-temperature-derating-note.pdf>