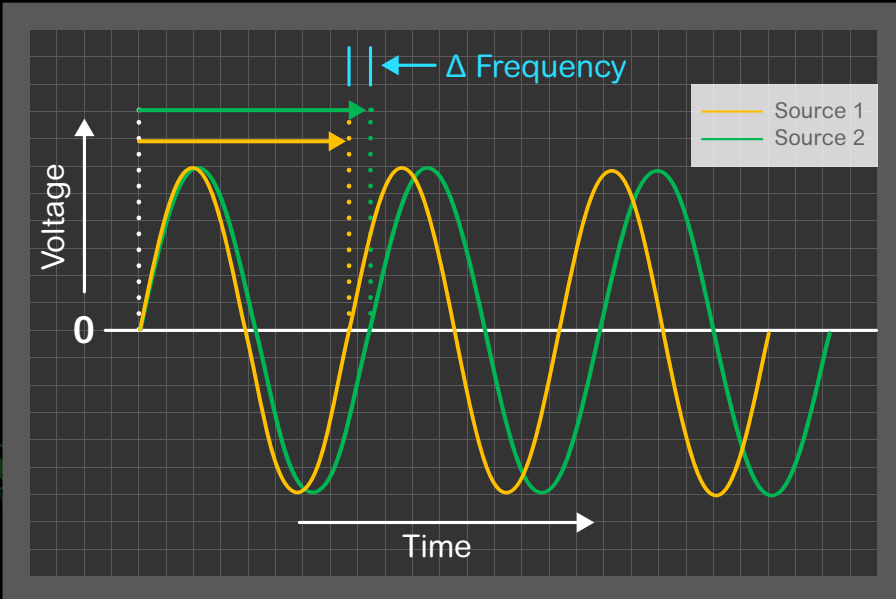


Basic Power Source Synchronization and Paralleling

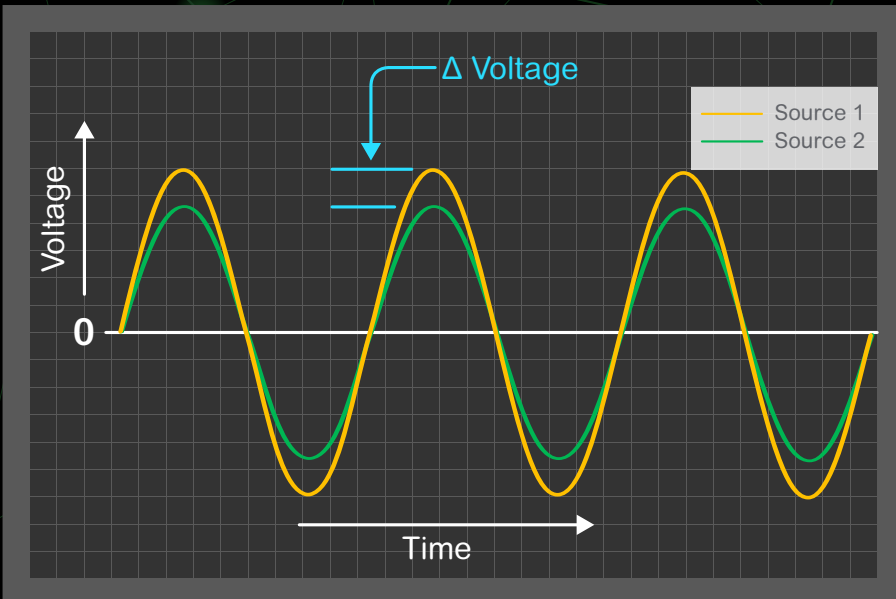
Differences in frequency, voltage, and phase angle affect the transfer of electrical loads between normal and emergency power sources.



±2Hz

Maximum frequency difference in typical synchronization.

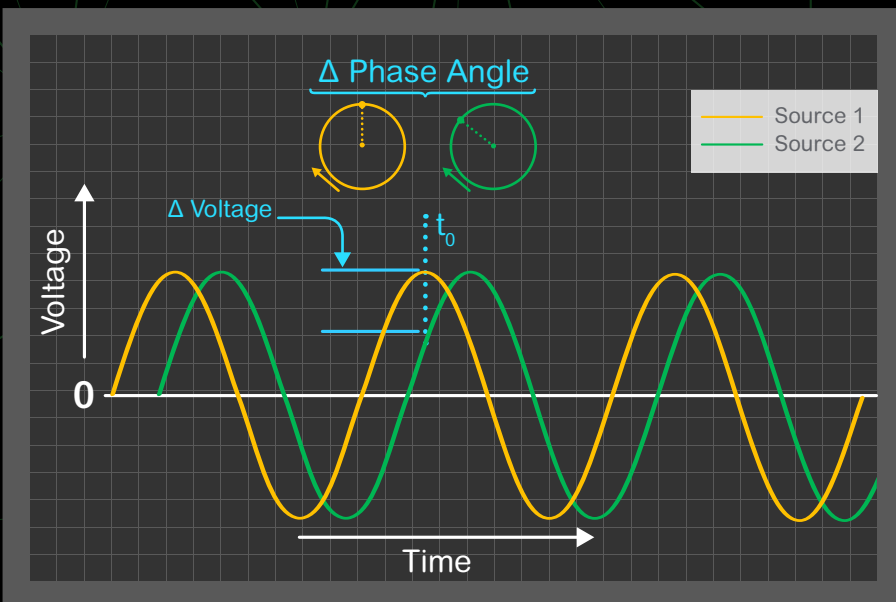
Hz The number of hertz equals the number of cycles per second.



±5%

Maximum voltage difference in typical synchronization.

V The standard unit of potential difference (voltage) and electromotive force in the International System of Units.



±5°/±60°

Typical phase angle difference for power connections.

∅ Phase angle is the angular difference between sine waves of two ac power sources.

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