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.

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

±5%
Maximum voltage difference in typical synchronization.

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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