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The schematic diagram 10 illustrates a power supply system. It features a transformer 12 with a primary winding connected to a switch 26. The switch 26 is controlled by a control unit 21 and can route power from the transformer 12 to either a first load 14 or a second load 16. The first load 14 is connected to a first battery 18, and the second load 16 is connected to a second battery 20. A second battery 20 is also connected to the first battery 18.

(57) Abstract: A method and apparatus for deriving characteristics of a utility signal for synchronizing the output of a motor drive with the utility for a transfer or capture operation. With the drive in idle, the voltage and phase angle of an input to the drive are detected by instrumentation of the drive. The voltage and phase angle of a signal from a utility are detected by instrumentation of the drive at the output of the drive. A phase angle difference and scaling factor are determined to correlate the input signal to the motor drive with the signal at the output of the motor drive. The phase angle difference and scaling factor are stored and subsequently used to derive the signal at the motor due to the utility at the time of the transfer or capture procedure.

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