Title (en)

SYSTEM AND METHOD FOR HIGHLY PHASED POWER REGULATION USING ADAPTIVE COMPENSATION CONTROL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HOCHPHASENLEISTUNGSREGELUNG

Title (fr)

SYSTEME ET PROCEDE DE REGULATION DE PUISSANCE HAUTEMENT MIS EN PHASE AU MOYEN D'UN CONTROLE DE COMPENSATION ADAPTIF

Publication

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Application

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Abstract (en)

[origin: WO0231951A2] A highly phased power regulation (converter) system having an improved control feature is provided. A controller, such as a digital signal processor or microprocessor, receives digital information from a plurality of power conversion blocks and transmits control commands in response to the information. The controller is able to change the mode of operation of the system and/or re-phase the power blocks to accommodate a dynamic load requirement, occasions of high transient response or detection of a fault. A compensation block within the controller is used to regulate the output voltage and provide stability to the system. In one embodiment, the controller is implemented as a PID compensator controller. In another embodiment, a microprocessor is able to receive feedback on its own operation thus providing enabling the controller to anticipate and predict conditions by analyzing precursor data.

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