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(54) **SYSTEMS AND METHODS FOR LOAD  
HARMONIC SUPPRESSION**

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**ABSTRACT**

Examples of the disclosure include a power system configured to be coupled to at least one energy-storage device, the power system comprising a first switch, a second switch, and at least one controller configured to detect a discontinuous conduction mode (DCM) based on at least one of an output voltage of the energy-storage device or an output power of the energy-storage device, and control the first switch to be open in one of a buck mode or a boost mode based on detecting the DCM.

