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(54) **CONVERTIBLE TRANSFER SWITCH**

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(57) **ABSTRACT**

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A system and a method for connecting electrical load(s) to a first power source and a second power source including a switching device and a controller. The switching device includes a first semiconductor device pair and a second semiconductor device pair. The controller configured to receive a first set of electronic signals corresponding to a condition of the first power source and the second power source, isolate the first power source or the second power source from the one or more loads by transmitting a first set of control signals to the switching device, receive a second set of electronic signals corresponding to the condition of the first power source and the second power source, and connect the first power source or the second power source to the one or more loads by transmitting a second set of control signals to the switching device.

