

OVER VOLTAGE PROTECTION FOR A WIRELESS POWER TRANSFER SYSTEM

ABSTRACT

A wireless power transfer system (100) is disclosed. The wireless power transfer system (100) includes a first converting unit (104) configured to convert a first DC voltage of an input power to an AC voltage. Further, the wireless power transfer system (100) includes a contactless power transfer unit (108) configured to transmit the input power having the AC voltage. Also, the wireless power transfer system (100) includes a second converting unit (110) configured to convert the AC voltage to a second DC voltage and transmit the input power having the second DC voltage to an electric load (132). Additionally, the wireless power transfer system (100) includes a switching unit (130, 312) configured to decouple the electric load (132) from the contactless power transfer unit (108) if the second DC voltage across the electric load (132) is greater than a first threshold value.

FIG. 1