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(54) **POWER CONVERSION SYSTEM AND
AUXILIARY POWER SUPPLYING METHOD
THEREOF**

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(57) **ABSTRACT**

A power conversion system and an auxiliary power supplying method thereof are provided. The power conversion system includes AC and DC ports, an AC-DC converter, a bus capacitor, and a first auxiliary source. The AC port receives or provides an AC voltage, and the DC port provides or receives a DC voltage. The AC-DC converter has an AC terminal and a DC terminal electrically connected to the AC port and the DC port respectively. The bus capacitor is electrically connected to the DC terminal. The first auxiliary source has an input terminal electrically connected to the bus capacitor for receiving a capacitor voltage across the bus capacitor.

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