

ABSTRACT

A motor train unit emergency traction system, comprising a traction converter (100). A power source input end of the traction converter (100) is connected to a power grid, a first output end is connected to a driving traction motor of a motor train, and a second output end is connected to a first end of a two-way alternating current-direct current converter (200) and an alternating current bus of the motor train; a second end of the two-way alternating current-direct current converter (200) is connected to a first storage battery pack (400) and an input end of a DC-DC converter (300); an output end of the DC-DC converter (300) is connected to a first direct current bus of the motor train; the first storage battery pack (400) is connected to a second direct current bus in the traction converter (100) by means of a third control switch K3. When a power supply fault occurs to the power grid, the motor train unit can perform emergency traction operation by using the first storage batteries (400).