

ABSTRACT

A motor train unit and a pantograph platform structure thereof are provided. The pantograph platform structure includes: a train body structure, a high-voltage box (4) and a pantograph guide guard (1). The train body structure has a sunken flat roof structure (3); the high-voltage box (4) is provided on the flat roof structure (3) and is configured to accommodate a high-voltage electrical apparatus, wherein, the high-voltage box (4) is accommodated on the flat roof structure (3), and a top surface contour of the high-voltage box (4) is aligned with a top surface outer contour of a train body structure; and the pantograph guide guard (1) is provided on the flat roof structure (3), wherein, the pantograph guide guard (1) has an avoidance portion for installing a pantograph, the pantograph guide guard (1) is accommodated on the flat roof structure (3), and a top surface contour of the guide guard (1) is aligned with the top surface outer contour of the train body structure. The pantograph platform structure according to the present application facilitates the installation and maintenance of the high-voltage box, reduces the aerodynamic resistance and the aerodynamic noise, and improves the aerodynamic performance.