

ABSTRACT OF THE DISCLOSURE

BIDIRECTIONAL DC-DC CONVERTER, TRAFFIC SYSTEM, CONTROL
METHOD, AND PROGRAM

5 A bidirectional DC-DC converter includes a first circuit that is configured to
process a first voltage being a DC voltage and that includes a first electronic component
including a first switching element; a second circuit that is configured to process a
second voltage or a third voltage, the second voltage being a DC voltage supplied to an
electric vehicle, the third voltage being a DC voltage generated in an electric vehicle, and
10 that includes a second electric component with a lower withstand voltage than the first
electronic component, the second electric component including a second switching
element; and a control circuit configured to control switching of at least one of the first
switching element and the second switching element wherein the bidirectional DC-DC
converter is configured to convert the first voltage into the second voltage or convert the
15 third voltage into the first voltage.

(fig. 1)