



Single Board with Two Devices BMA8420 and TAA3033

RDA8420TEIS0

Preproduction

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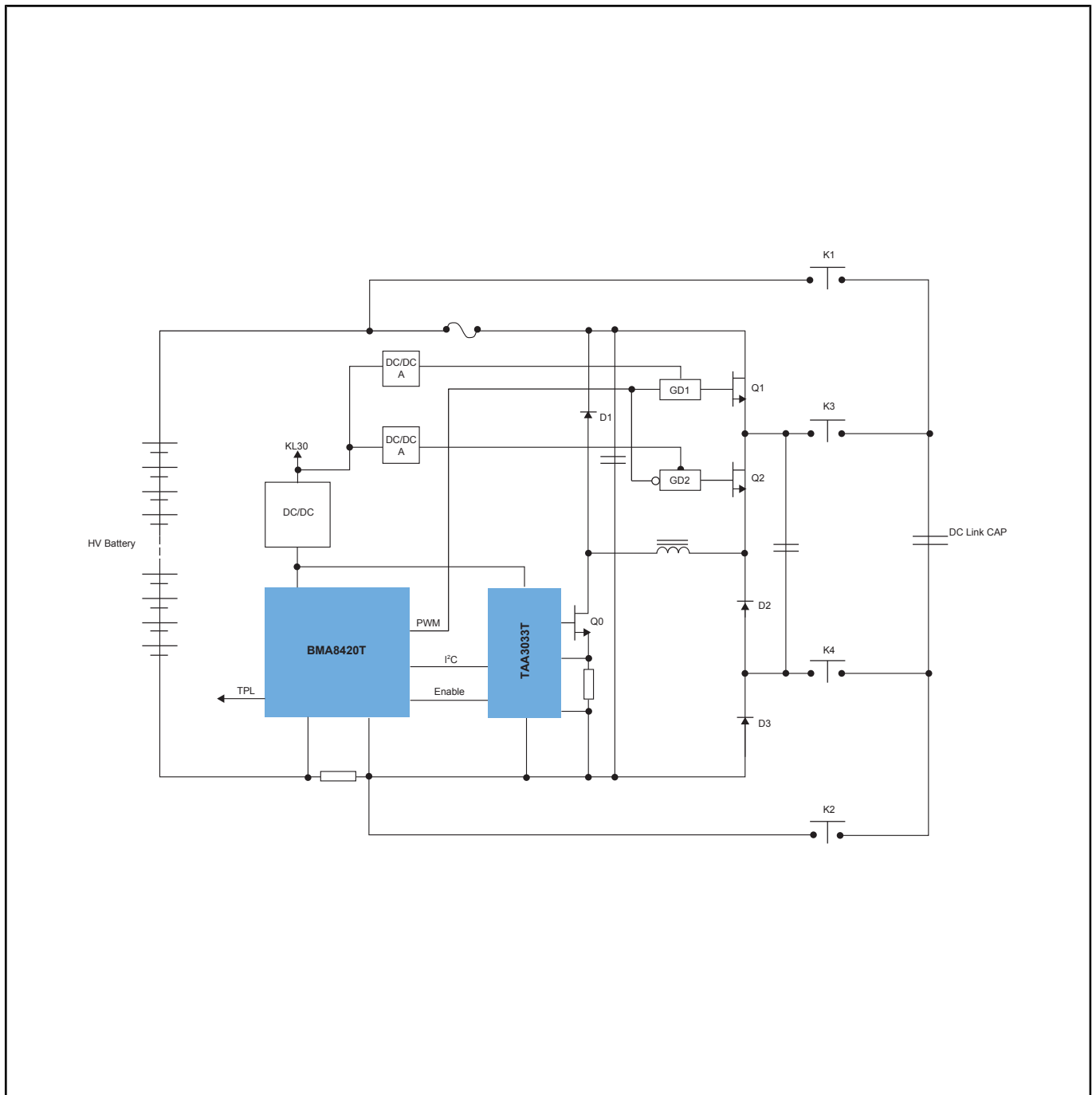
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The RDA8420TEIS0 is a single board with two devices capable of electrochemical impedance spectroscopy (EIS)—using the BMA8420 and TAA3033. This board uses the DC-link capacitor as a reservoir for storing and sourcing the energy for EIS.

The advantage of using the DC-link capacitor is that it provides an EIS solution solely within the battery management system (BMS), eliminating the need for the onboard charger and the traction inverter. The EIS excitation frequency is determined by the BMA8420 controller and is applied to the gate drivers on the board.

The current running to and from the DC-link capacitor is regulated by the TAA3033 controller. The sense resistor defines the amplitude of the excitation current.

RDA8420TEIS0 Block Diagram



View additional information for [Single Board with Two Devices BMA8420 and TAA3033](#).

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