

SUPERCAPACITOR CHARGE SYSTEM AND METHOD

ABSTRACT

The present invention relates to a supercapacitor charge system and a supercapacitor charge method of the supercapacitor charge system for a vehicle. The system and method are particularly relevant, but not limited to at least one supercapacitor, a stabilization and equalization controller operable to dampen a noise voltage, a charge balancing controller operable to suppress an overcharge of the at least one supercapacitor, and an energy management controller operable to control charge and discharge of the at least one supercapacitor for an energy distribution and operable to manage the energy distribution by interfacing with the stabilization and equalization controller and the charge balancing controller. Further, the system and method are particularly relevant, but not limited to the energy management controller that is operable to detect a charge amount and determine whether to charge or stop to charge based on the charge amount.

15

Fig. 1