Abstract of the Disclosure

METHOD FOR VERIFYING SMART BATTERY FAILURES BY MEASURING INPUT CHARGING VOLTAGE AND ASSOCIATED SYSTEMS

[0025] A method and associated system are disclosed for verifying charging failures for smart batteries by measuring input charging voltage and associated systems. In one embodiment, a determination is made whether or not a charging current is indicative of a battery failure by utilizing an analog-to-digital (A/D) port to measure the input charging voltage. As long as the measured input charging voltage is below the cell pack voltage or some set voltage value, whichever is higher, the BMU considers a charging current detection to be a false failure indication. If the measured charging voltage is above the cell pack voltage or a set voltage value, whichever is lower, the BMU considers the charging current detection to be a positive failure indication. The BMU can then disable the battery or implement other verification steps before disabling the battery, as desired.

FIG. 2



162162



G00002