

Features

- Cell Balance Controller for Li-ion, LiFePO₄ Battery Pack
- Active Charge Balance
- Constant Off-time Modulation
- Programmable Balancing Frequency
- Support Synchronous Operation
- Programmable Separated Balancing and Detecting Time
- Build-in High-side and Low-side Zero Current Detection
- External On/Off Control
- Programmable Working Voltage
- Manage 1% Voltage Difference Between Two Cells
- Over Temperature Protection
- TQFN32-4x4 Package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- Portable Consumer Electronics
- Electric traffic tools(E-Bike,E-Car)
- Hand-Held Tools

Typical Application

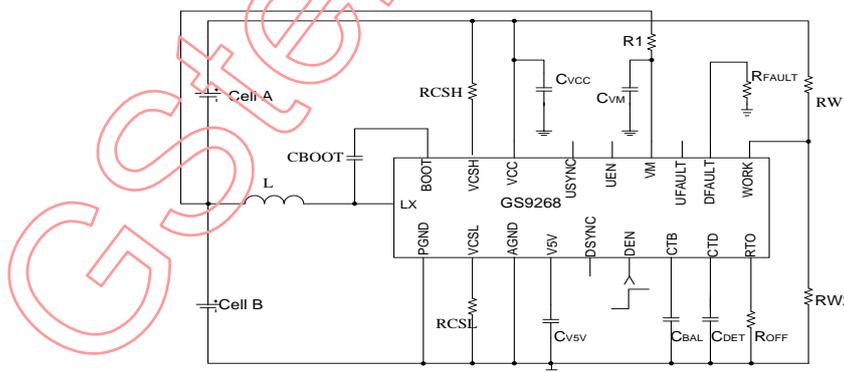


Figure 1 2-cell Balance Typical Application of GS9268

General Description

The GS9268 is a cell balance controller design for Li-ion/LiFePO₄ battery Pack, especially for high capacity battery and high balancing current applications.

The GS9268 uses inductor to reserve energy and diversion between two cells. The balancing current can be set by external components.

To get the accurate voltage of battery, The GS9268 will stop balancing when detecting. The length of balancing time and detecting time can be programmed by both internal generation and external input via DSYNC pin. When Dsync pin is floating, the length of balancing time and detecting time can be set by external capacitors.

For N cells balancing, there must be N-1 GS9268 working in a series. All the chips can synchronous working automatically, which eliminate interference of voltage detection in detecting time.

Programmable working voltage function helps users to define the minimal voltage of two cells to start balance.

This document is GStek's confidential information. Anyone having confidential obligation to GStek shall keep this document confidential. Any unauthorized disclosure or use beyond authorized purpose will be considered as violation of confidentiality and criminal and civil liability will be asserted.