



Single-Cell Li-Ion/Li-Polymer Battery Travel Charger

MC34674

Archived

This page contains information on a product that is no longer manufactured (discontinued). Specifications and information herein are available for historical reference only.

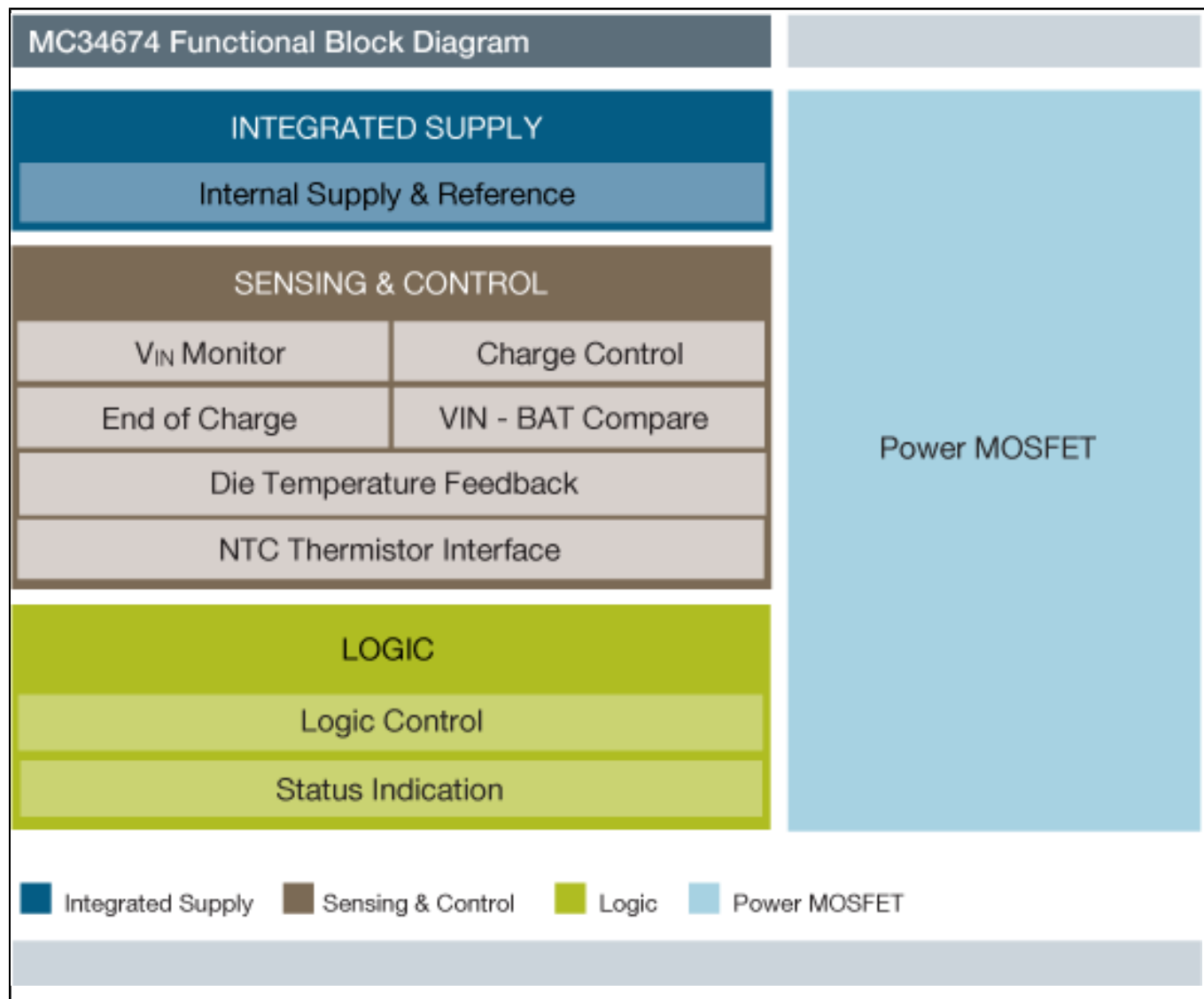
Last Updated: Mar 8, 2023

The MC34674 is a fully integrated single-cell Li-Ion and Li-Polymer battery charger optimized for travel charger applications. The few external components required include a dual-color LED for charge-status indication, a negative-temperature-coefficient (NTC) thermistor circuit for setting the charge temperature window and two decoupling capacitors.

The MC34674 tolerates an input voltage up to 28 V, which allows low-cost ac/dc converters to be used for further system-cost reduction. A charge cycle of the MC34674 includes trickle, constant-current (CC) and constant-voltage (CV) charge modes. The CC-mode current is selectable from 50 mA to 1.05 A, with 10% accuracy and the constant-output voltage in the CV-mode is fixed at 4.2 V.

The MC34674 has many features such as trickle charging for a deeply-discharged battery, an internal timer for termination to prevent charging a failed battery, charger current thermal foldback for thermal protection and smart battery-connection verification to prevent charging in case there is no battery connected. It has a 2.6 V falling power-on-reset (POR) threshold, making it ideal to work with current-limited power supplies. When the charger is disabled, the BAT pin leaks less than 1 μ A current from the battery.

Freescale MC34674 Battery Management Block Diagram Block Diagram



View additional information for [Single-Cell Li-Ion/Li-Polymer Battery Travel Charger](#).

Note: The information on this document is subject to change without notice.

www.nxp.com

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. The related technology may be protected by any or all of patents, copyrights, designs and trade secrets. All rights reserved. © 2025 NXP B.V.