High current lithium battery control chip

What is a lithium ion battery IC?

These devices offer charge currents from as little as 200 mA to 1.2 A and are ideal for any rechargeable lithium-ion battery. The ICs provide high measurement accuracy (voltage, current, and temperature) and cell balancing functions with low power consumption.

What is battery management IC?

Battery management solutions require accurate voltage, current, and temperature measurements to determine the exact state of charge of batteries and battery packs. Battery management ICs also ensure safety by monitoring cell temperatures during use and charging and cutting energy if temperature limits are reached.

What is a battery charger IC?

Our battery charger ICs offer many standard features for battery management and safety, including on-chip battery pre-conditioning, current limiting, temperature-controlled charging, monitoring and protection, telemetry via SMBus or I 2 C interface, and support for high voltage, multiple-cell and multi-chemistry batteries with a single device.

What is a battery charge management controller?

Our battery charge management controllers are reliable,low-cost and high-accuracy voltage regulation solutionsthat require few external components to reduce design size,cost and complexity. Highly integrated full-featured linear Li-ion battery charger with both USB and AC adapter inputs.:

What battery charger IC devices are available?

Analog Devicesoffers a broad portfolio of battery charger IC devices for any rechargeable battery chemistry,including Li-Ion,LiFePO 4,lead acid,and nickel-based,for both wired and wireless applications. These high performance battery charging devices are offered in linear or switching topologies and are completely autonomous in operation.

What is a lithium ion linear Charger?

Li-Ion linear charger... Battery management ICs play an important role in ensuring the safety of users, while making sure they get the most out of their battery-powered devices. Battery management solutions require accurate voltage, current, and temperature measurements to determine the exact state of charge of batteries and battery packs.

The TLE9012DQU is a multi-channel battery monitoring and balancing IC designed for Li-Ion battery packs used in many applications on the automotive world (electric vehicles of any kind MHEV, HEV, PHEV and BEV, etc), industrial (Energy storage systems) and consumer (i.e. e-bike BMS, home energy storage, etc). TLE9012DQU fulfills four main ...

The LTC4155 combines high current capability and efficiency with a small monolithic PCB footprint, ideal for portable devices with large lithium batteries where board ...

We have lineup of charge control IC that are suitable for charging 1-cell Li-ion battery and Li polymer battery. This IC features stable charging by high accurate voltage/current control. High safety is achieved by abnormal protection by battery temperature detection using external thermistor, and charging timer.

Lithium battery charge and discharge management chip is an integrated circuit used to control and monitor the charging and discharging process of lithium batteries. This chip typically includes functions such as voltage detection, temperature detection, current measurement, battery protection, and charging control. Silicon Source Technology provides single segment linear, ...

The MC33775A is 14 cell lithium-ion battery cell controller IC designed for automotive applications, such as hybrid and electric vehicle (HEV/EV) and industrial applications, such as energy storage system (ESS). The device measures differential high-precision cell voltages as well as temperatures.

The MCP7382X battery charger IC Family offers high-accuracy (±1%) solutions for single-cell Li-Ion battery charging applications. The devices can be used with an external P-channel MOSFET to form a 2 chip, low cost, low dropout linear charger.

Our battery charger ICs offer many standard features for battery management and safety, including on-chip battery pre-conditioning, current limiting, temperature-controlled charging, ...

The LTC4155 combines high current capability and efficiency with a small monolithic PCB footprint, ideal for portable devices with large lithium batteries where board space is at a premium, and heat and charge time are the enemy. USB-compatible input current limit settings further extend versatility to allow opportunistic charging from ...

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The MCP7382X battery charger IC Family offers high-accuracy (±1%) solutions for single-cell Li-Ion battery charging applications. The devices can be used with an external P-channel ...

The MC33771C is a Li-Ion battery cell controller IC designed for automotive and industrial applications such as HEV, EV, ESS, UPS systems. Featuring: ADC conversions on the differential cell voltages with averaging up to 256 samples and currents as well as coulomb counting and temperature measurements.

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A high-voltage (HV) lithium-ion battery charger control chip with sharp mode transition and partial current control technique is proposed in this paper. The proposed sharp mode transition eliminates the transition region between constant current (CC) and constant voltage (CV) stages in traditional CC-CV chargers. This technique reduces the charging time ...

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The MC33775A is 14 cell lithium-ion battery cell controller IC designed for automotive applications, such as hybrid and electric vehicle (HEV/EV) and industrial applications, such as ...

These devices offer charge currents from as little as 200 mA to 1.2 A and are ideal for any rechargeable lithium-ion battery. The ICs provide high measurement accuracy (voltage, current, and temperature) and cell balancing functions with low power consumption.

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