

How can microchip's Li-ion battery charge management controllers help you?

This application note shows how to take advantage of Microchip's fully integrated simple Li-Ion battery charge management controllers with common directional control to build a system and battery load sharing circuitry. The solutions are ideal for use in cost-sensitive applications that can also accelerate the product time-to-market rate.

How do you connect a battery controller?

Connect the positive wire from the charge controller to the positive terminal on the battery. Then connect the negative wire from the charge controller to the negative terminal on the battery. Ensure all connections are tight to prevent any power loss. Use a multimeter to check the voltage at the battery terminals.

Can I attach a system load directly to a Li-ion battery?

It is not encouraged to attach the system load directly to Li-Ion batteries when using a stand-alone Li-Ion battery charge management controller with automatic termination feature. The charge may never end. Most Li-Ion battery chargers are based on Constant Current and Constant Voltage (CC-CV) modes.

Can the system be powered by Li-ion batteries?

This allows the system to be powered by Li-Ion batteries without proper regulation. It is not encouraged to attach the system load directly to Li-Ion batteries when using a stand-alone Li-Ion battery charge management controller with automatic termination feature. The charge may never end.

What are solar charge controllers & lithium batteries?

Before delving into the specific settings, it's essential to grasp the fundamental concepts associated with solar charge controllers and lithium batteries. Charge controllers regulate the voltage and current from solar panels to charge batteries optimally.

How do you charge a lithium battery?

Lithium batteries have far lower self-discharge than lead acid, so we recommend setting this to 13.6v. Some charge controllers offer an equalization mode for lead-acid batteries. However, this isn't suitable for lithium batteries. Turn off or set to zero minutes. Set equal to absorb charge voltage if you are unable to turn it off completely.

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