

What is cable compensation?

Cable compensation has been used to compensate the voltage drop due to cable impedance for providing a regulated charging voltage in battery charger applications.

How does feedback control design cable compensation work?

Feedback Control Design Cable compensation can be effectively accomplished by subtracting the compensation signal $K_I O$ from the feedback voltage V_{FB} . However, in PSR applications, the average signal of V_{CS} with a DC gain K_{CC} is fed as the compensation signal instead.

How do you calculate cable compensation?

Cable compensation can be effectively accomplished by subtracting the compensation signal $K_I O$ from the feedback voltage V_{FB} . However, in PSR applications, the average signal of V_{CS} with a DC gain K_{CC} is fed as the compensation signal instead. In order to achieve proper cable compensation, the DC gain K_{CC} can be obtained from (7).

What is cable minus compensation?

This application note uses a novel cable compensation method, which called cable minus compensation, as an example to describe the concept and design criteria for the cable compensation of a PSR flyback converter. The analytic results are also verified by the simulation results.

How do you get a DC gain from a cable minus compensation?

The desired compensation voltage can be accurately reflected on the increment of the reference voltage through the compensation signal $K_I O$, and the DC gain K can be obtained from (1). The other is called cable minus compensation.

What is DC gain of a battery charger?

A DC gain of a voltage control loop of the battery charger may be limited to a predetermined value to compensate for voltage drop on the charging cable. For example, a DC gain of an error amplifier on the voltage control loop may be limited to a predetermined value for cable voltage drop compensation.

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Components for configuring cable voltage drop compensation are typically external to the PWM controller IC

to allow the IC to be adapted to different charging cables for different applications. Such a pin for cable voltage drop compensation is not necessary with the PWM controller 130, so the PWM controller 130 may be embodied in an IC with less than 8 pins, which is a typical pin ...

Keep the battery set wires paired to each battery as shown in the installation manual. Incorrect wiring can cause a fire or an explosion. o CAUTION: Ensure proper connections from the cable assembly to the batteries. Do not connect the cable assembly to itself or a battery directly to another battery - or a fire or explosion could result.

Cable Compensation of a Primary-Side-Regulation (PSR) Power Supply Abstract Cable compensation has been used to compensate the voltage drop due to cable impedance for providing a regulated charging voltage in battery charger applications. This application note uses a novel cable compensation method, which called cable minus compensation, as an ...

Features: RJUSB280 - Cable RJ45/USB for DC-UPS Size 4 (Aux2, Aux3), 1m in length RJUSBSD - Connector Cable Shut Down/USB, 1.2m in length ADELSysTem Temperature ...

Temperature compensation probes are not compatible between the older AT10 charger and the newer AT10.1 and ATevo models. When you order temperature compensation for the older AT10, you have to specify the model number, dc output voltage and battery type. A 25-ft cable is supplied as standard, but longer cables are available.

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The cable compensation circuit intends to correct for this reduction in voltage at the system load. Measured results with the cable compensation circuit, $RCABLE = 0.250\%$, $RIOUT = 6.19k\%$, ...

Specification: Item Type:Battery Qualizer Model: NBFY HA01 Battery Rated voltage: 2*12V Optimize Current: 0-5A Protection: Reverse Polarity Protection Low Voltage Disconnect:10V How to use: Installation: (Connect the battery qualizer to the battery as follows)Red Cable: Battery B + positive poleBlack Cable: Battery A - negative poleWhite Cable: Battery B negative pole or ...

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The model uses the slope angle of the centroid line of the cable to describe the motion of the cable, and the resulting integropartial differential equation with constraints is derived using Hamilton's principle. A new method is developed to obtain the spatially discretized equations, and the Baumgarte stabilization procedure is used to solve ...

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