Voltage modification of remote power supply module

Remote sense provides a straightforward way to correct them by letting the supply monitor the voltage at the load itself and adjust its output accordingly. Understanding how this mechanism ...

This work proposes a low-cost and easy-to-implement solution for a remote voltage-sensing circuitry that can be used to ensure stability and good ...

Figure 1: A remote sensing power supply uses dedicated sense lines to measure voltage at the load terminals. Since the voltage at the load is known, the supply can automatically adjust its output to ...

Using the remotely sensed voltage, the power supply can then adjust its output to obtain the desired voltage at the load. In the example below, the 0.3V drop was corrected by the power supply ...

This document details the modification of a Chinese switchmode power supply (SMPS) to achieve a variable output voltage ranging from 4.8V to 15V, with a maximum output current of 33A.

Considering the economic feasibility of power supply solutions throughout the lifecycle, a modeling method is proposed that optimizes the ...

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Remote sensing can improve regulation at a remote reference point. For example, appreciable voltage drop can occur in the wire between the power supply and load as the current increases.

When a power supply delivers current through the connecting cables, the voltage may decrease at the load. To compensate, you can use remote sensing to correct for the voltage drop.

In one of the prior posts we figured out to produce a variable voltage SMPS circuit by making use of an easy shunt regulators stage, in the present hack also we implement the same ...

The available power planes can be used to reduce the DC voltage gradient to within regulation tolerance. The power plane helps with DC-regulation accuracy and improves system efficiency by ...

To solve this problem, power supplies have remote sense detection circuits that monitor the voltage at the load and feed the voltage back to the power supply. The power supply then raises ...

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