

How to change the output current of the base station power supply

How do you set a power supply output?

Set each power supply output independently so that the voltages or current sum to the total desired value. For higher voltage, first set each output to the maximum desired current limit the load can safely handle. Then, equally distribute the total desired voltage to each power supply output.

How does a power supply work?

The voltage is regulated, keeping the value constant, with the current being determined by the load. If the load current is high and the load is trying to draw MORE current than the current setting, the power supply will limit the current at the current setting value and operate in CC mode.

How do you connect a power supply?

For higher voltage, connect power supply outputs in series, and for higher current, connect outputs in parallel. Set each power supply output independently so that the voltages or current sum to the total desired value. For higher voltage, first set each output to the maximum desired current limit the load can safely handle.

How do you set a power supply to a high voltage?

For higher voltage, first set each output to the maximum desired current limit the load can safely handle. Then, equally distribute the total desired voltage to each power supply output. For example, if you are using three outputs, set each to one third the total desired voltage.

Can a DC power supply switch between constant voltage and constant current?

This article primarily applies to DC power supplies that can switch between constant voltage (CV) and constant current (CC) mode automatically. Many of B&K Precision's DC power supplies are categorized as this type of power supply, and depending on the application it is important and useful to know how to switch between the two modes.

What happens if a power supply draws current less than 1 A?

When the load connected draws current less than 1 A, the power supply will maintain voltage control in CV mode. If the load draws current at 1 A, the supply will automatically switch to CC mode. In these cases, the current will output at 1 A or at the current limit, while the voltage will decrease down to a value that's dependent on the load.

So, there isn't any way to directly put the power supply in constant current mode, just set the max current and max voltage that you want. If it doesn't hit the current limit, turn up ...

In this video I will explain how to remake the power supply so that the output is regulated instead of a constant voltage. For example, I will use a 5-volt switching power supply with a power of ...

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In short, to switch between CV and CC mode, users must configure a current limit at a value in which they want to run CC mode. Then, based on the load connected, the supply ...

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