

Base station adjustable power supply circuit





Overview

Does a workbench power supply circuit have variable voltage and current control?

A power supply circuit lacking variable voltage and current control features cannot be deemed truly versatile under any circumstances. This article describes a workbench power supply circuit that includes both variable voltage control and adjustable current control for overload protection.

How do you adjust the output voltage of a power supply?

The output voltage of a power supply is usually a fixed voltage, but sometimes it may be necessary to adjust that output voltage. For example, you may be able to reduce the power dissipation in a low-voltage high-current processor – while still keeping performance high – by adjusting the voltage fed to the core.

What is an adjustable output power supply (AVS)?

Using AVS allows the processor to optimize the core voltage, thus improving performance and reducing power dissipation. This is just one example of how to create an adjustable-output power supply. For more information, see my latest Power Tips post on EETimes.

What is a variable power supply?

Variable power supply with high current capabilities. In this circuit for a high current linear power supply, a 2N5686 transistor is utilized instead of 2N3055 to enable a minimum current delivery of 10 amps. The preset P3 can be adjusted to set a current range of 10 amps. Constructing the power supply is relatively simple in itself.



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workbench power ...



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Circuit-Zone

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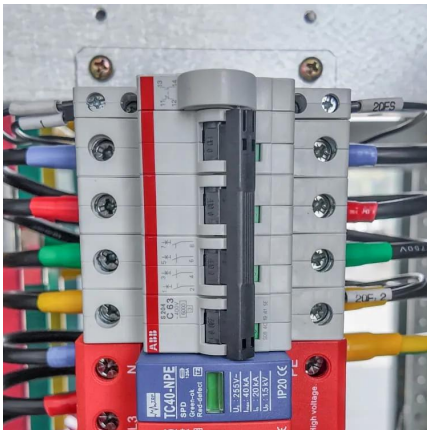
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[A Complete Guide to Building a 0-30V ...](#)

Learn about the 0-30V variable power supply circuit diagram and how to build your own adjustable power supply for electronics projects.



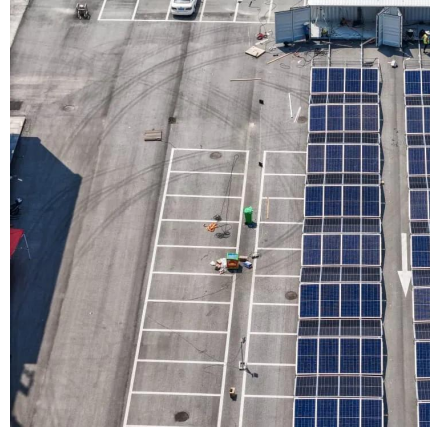
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