

# How to check the load voltage of base station power supply

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How do you troubleshoot a power supply?

Your troubleshooting task is to determine if the problem is the power supply, the input supply voltage, or a load change on the demand side. You can do this by checking the AC input voltage and the DC output voltage. To do this, you'll follow these steps: 1. Safety Measures a.

How do you test a DC power supply?

Insert the black probe into the COM port and the red probe into the V? port. c. Power off or disconnect any devices attached to the DC output if possible. This will help avoid any sudden voltage spikes while measuring the voltage. d. Identify the DC output terminals of the power supply.

How do I know if my power supply is faulty?

Check if the reading aligns with the manufacturer's specified output voltage (12V, 24V, 48V, etc.). g. Remove the red probe first, then the black probe. If the DC output voltage is not as expected, there is likely an issue with the load change from AC to DC.

How do you calculate the minimum load of a power supply?

Use the formula for power: Power = Voltage x Current, or  $P = VI$ . If for any reason you only have the current and power ratings of your power supply, you can use  $P = I^2 R$ , which can be changed to  $R = P/I^2$ . As you can see, calculating the minimum required load of your power supply is a very simple process.

Overview Using a Paperclip Using a Power Supply Tester Using a Multimeter If your desktop PC won't turn on, is stuck in a reboot loop, periodically powers down, or gives yo... Using a PSU tester is the easiest way to check a power supply. Just disconnect all internal components from the PSU, attach the tester, and turn on your PC. You can use a bent paperclip to check if a power supply is completely dead. Once you figure out if the power supply is giving you the right amount of power, make sure it gives you the same readings when components are connected. See more on wikihow #b\_results li.b\_ans.b\_mop.b\_mopb,#b\_results li.b\_ans.b\_nonfirsttopb{border-radius:6px;box-shadow:0 0 0 1px rgba(0,0,0,.05);margin-top:12px;margin-bottom:10px;padding:15px 19px 10px}#b\_results li.b\_ans.b\_mop.b\_mopb .b\_sideBleed{margin-left:-19px;margin-right:-19px}.b\_ans

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296px;display:flex;flex-direction:column;align-items:flex-start;gap:var(--smtc-gap-between-content-medium);
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h2 { display:-webkit-box;-webkit-box-orient:vertical;-webkit-line-clamp:1;line-clamp:1;align-self:stretch;overflow:
hidden;color:var(--smtc-foreground-content-neutral-primary);text-overflow:ellipsis;font:var(--bing-smtc-te
xt-global-subtitle2-strong)}.b_ans #b_mrs_DynamicMRS h2
strong { font:var(--bing-smtc-text-global-subtitle2-strong)}#b_results #b_mrs_DynamicMRS .b_vList
li { width:320px!important;padding-bottom:0;display:inline-block}#b_mrs_DynamicMRS .b_vList
li:not(:nth-last-child(1)):not(:nth-last-child(2)) { margin-bottom:var(--smtc-gap-between-content-x-small)}#b_
mrs_DynamicMRS .b_vList
li:nth-child(odd) { margin-right:var(--smtc-gap-between-content-x-small)}#b_mrs_DynamicMRS .b_vList li
a { display:flex;height:48px;padding:0
var(--mai-smtc-padding-card-default);align-items:center;gap:var(--smtc-gap-between-content-small);flex-shri
nk:0;border-radius:var(--smtc-corner-circular);background:var(--smtc-ctrl-input-background-rest);color:var(--
bing-smtc-foreground-content-neutral-secondary-alt);transition:background-color
var(--acf-animation-duration-default) var(--acf-animation-ease-default)}#b_mrs_DynamicMRS .b_vList li
a:hover { background:var(--smtc-background-ctrl-neutral-hover)}#b_mrs_DynamicMRS .b_vList li
a:active { background:var(--smtc-background-ctrl-neutral-pressed)}#b_mrs_DynamicMRS .b_vList li a
.b_dynamicMrsSuggestionIcon { display:block;width:20px;height:20px;background-clip:content-box;overflow:
hidden;box-sizing:border-box;padding:var(--smtc-padding-ctrl-text-side);direction:ltr}#b_mrs_DynamicMRS
.b_vList li a .b_dynamicMrsSuggestionIcon:after { display:inline-block;transform-origin:-762px
-40px;transform:scale(.5)}#b_mrs_DynamicMRS .b_vList a
.b_dynamicMrsSuggestionText { font:var(--bing-smtc-text-global-body2);display:-webkit-box;text-align:left;-
webkit-box-orient:vertical;-webkit-line-clamp:2;line-clamp:2;overflow-wrap:break-word;overflow:hidden;flex
:1}#b_mrs_DynamicMRS .b_vList a .b_dynamicMrsSuggestionText
strong { font:var(--bing-smtc-text-global-caption1-strong)}#b_mrs_DynamicMRS .b_vList li a
.b_dynamicMrsSuggestionIcon:after { content:url(/rp/EX_mgILPdYtFnI-37m1pZn5YKII.png)}
```

Digital multimeters are easy to use and can measure voltage, which is important for pinpointing problems with a DC power supply. Here, we'll discuss the basics of DMMs and how to check ...

Explore Part 7 of our Power Supply Measurement Tips series. Learn how to check load regulation, ripple, noise, efficiency, and compliance with precision tools.

This video tutorial covers essential load testing techniques, including using a load tester, measuring voltage and current, and identifying potential issues.

If you can't find a PSU tester, you can check to see if the power supply is completely dead by doing a quick paperclip test or by measuring the power supply's voltage ...

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The two pieces of test equipment I used to perform the load tests are a BK Precision 8514 Electronic Load and a VIZ WD-767 AC Digital Wattmeter. The 8514 load has a capacity of ...

1) Find the voltage and minimum current ratings of each output. 2) Use Ohm's Law:  $R = V/I$  to calculate each output load. Notice that Channel 3 is rated at -12V, but it is not included as a ...

Explore Part 7 of our Power Supply Measurement Tips series. Learn how to check load regulation, ripple, noise, efficiency, and ...

Make sure the power supply is on. Read the voltage displayed on the multimeter. This reading shows the voltage output of your power supply. If the voltage is within the expected range, ...

In this guide, we'll explore how to check power supply voltage using a multimeter, taking you through the basic concepts, the procedure, safety precautions, and troubleshooting ...

Testing a power supply manually using a multimeter is an essential skill for anyone involved in electronics, whether as a hobbyist, a technician, or an engineer.

A measurement of the output voltage and current of the power supply under test is required while decrementing the electronic load resistance (or current in CC mode) by steps from an initial ...

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