

How to ground the shortwave base station power supply

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How do I design a grounding system for a high-powered station?

When designing a grounding system for a high-powered station, there are several technical factors to consider: Grounding Resistance: The resistance between your grounding system and the earth should be as low as possible, typically under 10 ohms, but ideally below 5 ohms for optimal safety.

What is a high-powered radio station grounding system?

A typical high-powered amateur radio station grounding system includes the following components: Grounding Rods: These are typically made of copper or copper-clad steel and are driven into the ground to provide a low-resistance path to earth. A common practice is to use multiple ground rods placed several feet apart.

What kind of grounding do I Need?

First is electrical grounding. This will usually be down through the power supply as you mentioned. Next is RF grounding. This would normally be done to a ground rod, which being in an apartment you do not have access to. In the past we often would use metal water pipes which eventually ran to a pipe in the ground.

What type of grounding do ham radios use?

You have three different type of grounding used in HAM radio. First is electrical grounding. This will usually be down through the power supply as you mentioned. Next is RF grounding. This would normally be done to a ground rod, which being in an apartment you do not have access to.

Do Ham stations need good electrical grounding?

They are, in point of fact, quite often at odds with each other. Good electrical ground techniques seek to protect the user against power line AC power line hazards and destructive intrusion by lightning. Good electrical grounding is mandatory, both by local and national electrical codes, but also by good engineering design of your ham station.

What is an effective station electrical ground?

An effective station electrical ground bonds the chassis of all station equipment together with low-impedance conductors and ties into a good earth ground as near as possible, or where the electric service panel has its origin. Notice the very large ground bus in the illustration above.

Hello all, New user to the forum here. Started researching radios online and realized there is a lot of



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information out there ? And a lot more than I know. I am looking to start ...

The title says it all. What exactly does grounding a antenna mean? And how do you ground a antenna? I'm a amateur when it comes to antennas so I'd appreciate if someone ...

The NOVA range of power supplies is the most extensive by far. Each unit has been developed over the years incorporating value added features such as metering and adjustable voltage. ...

In most cases the best approach is to drive one or more ground rods into the earth near a window or access point to the station. Bonding to this ground rod will provide needed ...

Newsgroups: rec.radio.shortwave Subject: Grounding is key to good reception, was: Experience w/NRD-535 In your recent post you advised that coax should be grounded at two sites, first at ...

Shortwave Radios New & Used Shortwave Radios! Browse our current selection of new, used, vintage, and hard-to-find Shortwave Radios, related accessories and supplies ...

Learn how to install proper grounds for your ham radio antennas. Stay safe and optimize performance with expert tips and advice.

Over on QRPer , I just published a post on portable power that was The Spectrum Monitor magazine's April 2021 cover article. This article is ...

Should you connect a DC power supply to ground, or not? The answer to this is not a straightforward yes or no. This article explores the benefits and drawbacks of grounding DC ...

The short answer is that yes, your tower, antenna, and coax may share a ground. In fact, their grounds are required to be bonded (connected) to each other and to your ...

How do you power a mobile radio for use as a base station? Get a power supply. But this isn't a cut and dry, one-size-fits-all sort of thing. ...

In setting up a base station it's recommended that you place a 8" ground rod into the ground directly below the antenna. Run a #8 solid copper ground wire from the U-Clamp ...

The rig is grounded for electrical safety through its power plug, or the external power supply's power plug. In my opinion, the ground lug is provided for hams who are trying ...

Are you trying to choose between a linear and switching power supply for a new radio? There are several other factors to consider beyond linear vs. switching. However, for ...



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Best Practices for Grounding Your High-Powered Station. Multiple Grounding Points: Use multiple grounding rods to ensure a robust grounding ...

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