

SolarInnovate Energy Solutions

How to connect the linear power supply of shortwave base station



Overview

How does a linear power supply work in a ham radio?

Linear power supplies are one of the grand elders of ham radio. They've been around as long as radio itself. The principle of operation is fairly simple. Household AC voltage is fed to a transformer and dropped down to 12-15 volts. The low voltage AC goes through a rectifier which changes it to DC.

How to tune a tube shortwave transmitter?

Tube Shortwave Transmitter - Instruction Sheet
Step 1: Grid tuning procedure
It may be necessary to check the tune from time to time of the Grid circuit. This is especially so if you move from say 6950 kHz to say 7300 kHz. Insert a crystal and tune the PA as normal. Con.

Are switching power supplies better than linear power supplies?

This is why switching power supplies are less expensive, more efficient, smaller, and lighter than their elders. And like old school linear power supplies, they can also include extra features. On the down side, switching power supplies have the potential to generate RF interference, especially on the HF bands.

How to connect a ham radio to a power supply?

Connect the wires. Attach the positive wire from your power supply to the positive terminal on your ham radio. Ensure it's connected securely using suitable connectors like ring terminals or Powerpole connectors. Similarly, connect the negative wire from your power supply to the negative terminal on your ham radio. 5. Ensure proper grounding.

Can a power supply be used for a radio station?

Power supplies with a wide range of variable output voltage are more suitable for use as a laboratory power supply. In principle, however, such a power supply can be used for operating a radio station, provided it can deliver the

maximum required current at 13.8 V. However, there is a risk in using such power supplies.

Are SMPS a linear power supply?

And of course SMPS (switch-mode power supplies) have fundamental frequency well above the audio band, so unlike linear supplies there are no 50/60 or 100/120 Hz fundamentals and harmonics to corrupt the audio band (leakage excepted).

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New QJ1830 Linear Voltage Regulator Power Supply Marine Radio Base

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