



## Outdoor power supply has noise

How to reduce audible noise in a power supply? There are several solutions to address audible noise in a power supply. Solutions such as changing the control strategy to avoid certain frequencies or changing the peak current can reduce audible noise. Changing the magnetic design to change the stiffness constant or the weight of the board or the construction of the coil can also mitigate noise. How low can a power supply make a noise? To meet these requirements, power supplies must reduce the switching frequencies below 20kHz, occasionally as low as a few kHz. Because the human ear can hear sound frequencies below 20kHz (and is most sensitive between 2kHz and 5kHz), audible noise is difficult to miss and can be extremely annoying. Does a power supply make a noise? A power supply is an essential component of any computer system, providing the necessary electrical energy to power up the various hardware components. However, power supplies can sometimes generate a considerable amount of noise, which can be bothersome and affect your overall computing experience. What happens if a power supply is too loud? Excessive power supply noise can have several negative effects, impacting both your computing experience and the longevity of your system. A loud power supply can be a significant distraction, particularly if you're working in a quiet environment or trying to focus on important tasks. Which power supply components are most susceptible to audible noise? Power supply components most susceptible to audible noise are usually MLC ceramic capacitors, inductors, or transformers. Magnetic components, such as inductors and transformers, are stressed by high-voltage pulses at frequencies that result in a physical effect, such as the reverse piezoelectric effect on the coil or magnetostriction on the core. How do I choose a quiet power supply? Premium power supplies often incorporate advanced cooling mechanisms and components designed for quiet operation. When choosing a power supply, look for models with lower decibel ratings or those specifically marketed as silent power supplies. Improper cable management can contribute to increased vibrations and noise.

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