

A-Core Container

How to measure the inductance of a base station power supply



✓ 100KWH/215KWH

✓ LIQUID/AIR COOLING

✓ IP54/IP55

✓ BATTERY 6000 CYCLES



Overview

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Explains how to use an oscilloscope and appropriate probes to measure inductor and transformer performance during power supply operation. Explains the use of inductance measurements and B-H curves to gain insight into performance. While some of the measurements described can be set up manually.

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Developing mitigation techniques or modeling systems often requires a method to accurately characterize the inductance of an existing system. This document identifies the commutation paths of a typical system and provides a clear and detailed methodology for measuring these inductances using an.

Switched-mode power supplies commonly use inductors for temporarily storing energy. In the evaluation of these power supplies, it is often useful to measure the inductor current to gain a complete picture of the voltage conversion circuit. But what is the best way to measure the inductor currents?

We need to find the value of the inductance by monitoring its behavior. We can probe anywhere we need and measure V or I. My answer was: to get a

reliable measurement, include a known resistor in series with the switch/inductor, probe for voltages, record the decay in transient voltage across the L.

most important component in a switching power supply is its power inductor. A power inductor has high permeability core around which the windings are wound. It saturates when the current flowing through the conductors is larger than its saturation value. Saturation is a material property of the.

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