

Self-use external power supply





Overview

What is the difference between self-powered and external power sources?

External power sources (e.g., conventional potentiostats and batteries) are generally more robust and precise, while, the self-powered devices have miniaturized power sources integrated in the device itself, making the whole system more portable and compact, thus ideal for point-of-care applications.

How to supply external power?

The procedure to supply external power is as follows (this procedure must be adhered to so that USB power is not applied to the board at the same time as external power): Fig. 5.6. Powering the board from VIN or E5V. Connect external power source to VIN or E5V VIN must be between + 7 and + 12 V, or E5V must be + 5 V.

Why is external power supply important?

Thermal load on the device can be minimized by housing the power supply externally, resulting in increased longevity and performance. The external power supply also provides flexibility and convenience, since it can be easily changed or upgraded without requiring users to open the device.

Why do we need external power source?

External power source is required for the active technique to enhance the heat transfer, and this makes it suitable for a narrow range of applications. Like vibrated flow, surface vibration and other similar ways (see Fig. 2). Fig. 2. Corrugated tube of Lazim et al. Mohammad Amin Farahmand Nejad, . Arben Merkoçi, in *Materials Today*, 2021



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