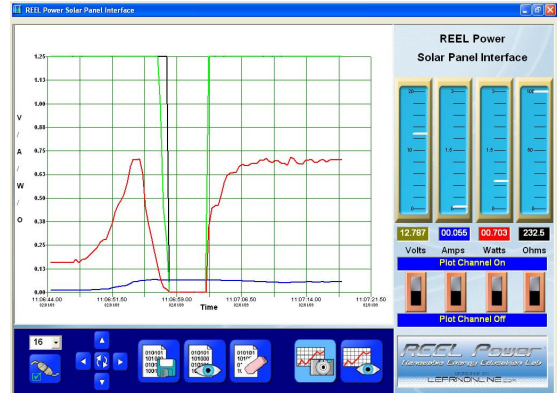
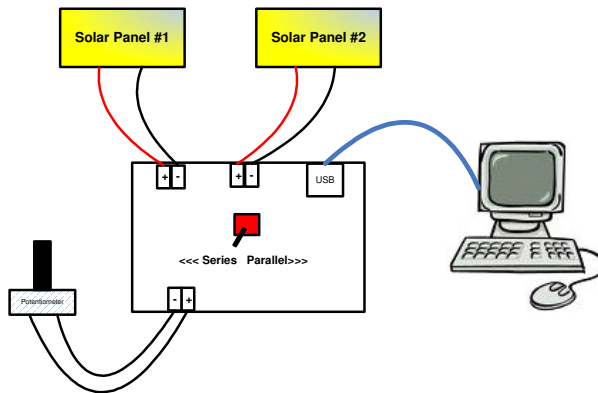




Solar Panel Interface – Quick Look

The **Solar Panel Interface** will allow you to quickly and accurately characterize two solar panels in series or parallel. The graphic software displays the solar panel's **voltage (green)**, **current (blue)**, power (**red**) and **load resistance (black)** outputs – all together - on a single plotting screen like the one here.



Rather than manually plotting **IV curves**, the **Solar Panel Interface** does this for you automatically by you adjusting an external variable load resistor - immediately showing the **maximum power point** for any load and solar panel series or parallel configuration.

You can also determine the effects of **heat, shadowing and tilt angle** on the solar panel's performance. Experiments have been provided for all of these measurements.

This User Manual and the experiments are written for students and experimenters that already have an understanding of the basic concepts of solar panel construction and operation including series/parallel hookups, and who wish to explore more advanced issues surrounding these renewable energy devices.

The **Solar Panel Interface** can accommodate voltages up to 28 volts DC and currents up to 1 amp. The Series-Parallel switch makes selecting either panel configuration a snap.

In the **Solar Panel Interface** you have a professional measurement instrument that is suitable for a serious study of solar panels.

