

## Providing Clean Power To ECIS Instruments

We at Applied BioPhysics would like to thank you for buying an ECIS Instrument. We have tried very hard to create an instrument for you that greatly simplifies cell-based assays and provides you with the data you desire. Our customers do a very diverse set of assays but one feature that many of our customers have in common is that their ECIS machines are in operation on a continuous basis. For some customers this involves following one experiment over weeks at a time, for others it is several experiments done on a daily basis.

No matter the reasons our customer expect their ECIS machines to work reliably and we have worked very hard to provide you with the best product possible at the best price possible. However, we have had customers loose valuable data because of occasional problems with the power supply. In environments where electrical equipment are constantly being started and stopped, the power supply must continuously adapt to the increases in load. This causes momentary fluctuations in the line voltage which can propagate into the instrument or computer. The results of voltage spikes entering the instrument or computer are completely random and may include data spikes, shutdown or resetting of the instrument, program crashes or loss of USB connections.

The most economical solution to assure continuous clean power is an Uninterruptible Power Supply (UPS). These units are widely available from electronics or office supply stores. If you decide to add this protection to your system, we recommend a minimum of 150VA which will provide a few minutes of backup power. Simply plug both the laptop power supply and ECIS Instrument into the UPS unit in the outlets marked for battery back-up. If your lab experiences brown outs or blackouts on occasion then a system with longer battery life is more appropriate.

We realize that having to source your own UPS may be inconvenient and we will gladly order a unit to be shipped directly to you for a small fee in addition to the cost of the unit. Units that we have in house or that we would order for our customers are below.

### Uninterruptible Power Supplies

1. APC Back-UPS 425VA/225W Battery Backup Uninterruptible Power Supply BE425M  
available from Amazon, Newegg, Best Buy, Office Depot
2. CyberPower Standby UPS 350VA 255W Compact CP350SLG  
available from Amazon, Newegg, Best Buy, Office Depot
3. Tripp Lite 250VA 180 Watt Destop PC/Mac Battery Back Up Compact BC350  
available from Amazon, Newegg, Best Buy, Office Depot

### Further Technical Tips

We wish you the best success in your ECIS Cell-based Assays. For technical assistance in developing and running your cell-based assays please visit our applications download page at

[www.biophysics.com/app\\_notes.php](http://www.biophysics.com/app_notes.php)