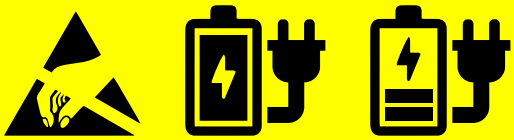
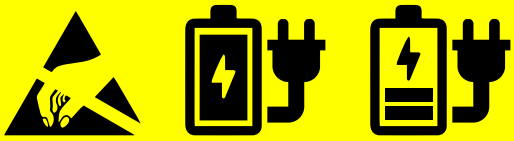
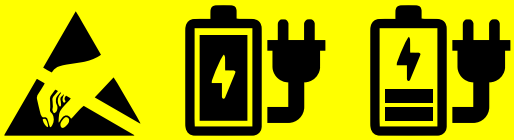
ICT Instrument Power & Handling Warnings!



ICT Instrument Power & Handling Warnings!



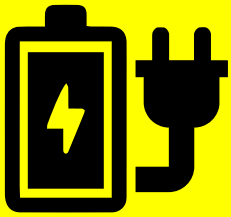
ICT Instrument Power & Handling Warnings!



ICT Instrument Power & Handling Warnings!

1. Electrostatic Discharge Notice!

The components used in this instrument are susceptible to Electrostatic Discharge (ESD). To prevent damage of the instrument from ESD, the antenna MUST ALWAYS be connected (e.g. during storage; before turning on the instrument; and in use).



2. External Power & USB Connection

ICT instruments are designed to be powered by a Solar Panel, with a charge/ discharge cycle. **Continuous Powering of the instrument without a charge/ discharge cycle will destroy the battery within 6 months.** This warning regarding external power applies to all ICT Instruments containing the circuit board revision 04 Generic Communications Board and/or made from January 2012 to present, running any version of firmware. The instruments related to this issue includes, **but is not limited to**, the following ICT Products:

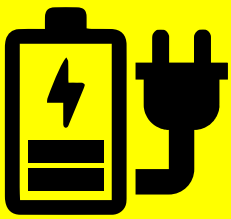
- ☐ SFM1
- ☐ PSY1-Stem, PSY1-Leaf
- ☐ HFD8-100 (HFD1)
- ☐ HFD8-50 (HFD2)
- ☐ AML
- ☐ AWS
- ☐ SDI1 (ICT SDI-12 Logger)
- ☐ VSL (AIM1, DEN1, DEN2, DEN5, LSM1, LSM4, SCP1, SMM1, SMM2, SMM3, SOM1, STM1, TSM0, TSM1, TSM2, WLM1, HFM1 etc.)

It is NOT recommended that these ICT Instruments have continuous (24/7) connection of permanent power (e.g. for days, week or months at a time). Using permanent power sources can shorten the life of the internal battery due the design of the instruments' internal charge management system. The following are examples of permanent powering which need to be avoided:

- Instruments connected by external USB plugged into a computer, Hub or USB Power Bank etc;
- by external batteries connected to the ICT Bus Plugs;
- or by any other permanent power systems.

ICT International recommends using a directly connected solar panel (with no external battery backup in parallel) wherever possible. When running instruments from a DC Lab Power supply or ICT CH24, it is required that a 7-day time-clock be connected to simulate a Solar Panel behaviour, with power disconnecting for 8-12 hours a day.

For further information on choosing a power system please contact ICT international for support.



3. Ensure Battery is Charged!

Ensure battery is charged for 24 hours before use. For maximum battery life & performance the battery MUST be charged every (3) months while in storage. See manual for further information.