

Re: My PC was hit with lightning and now Microcenter is looking at it.

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Source: <http://www.derkeiler.com/Newsgroups/comp.security.misc/2007-07/msg00049.html>

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 - *Date:* Wed, 11 Jul 2007 16:51:18 -0700
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On Jul 11, 3:55 pm, Ari <arisilverst...@xxxxxxxxxx> wrote:

Unless you are unable to use the grounding in/outs as has been my case several times.

When effective protectors are earthed, installation of that earthing wire has some fundamental requirements. For example, that wire must be short to achieve low impedance. Wire length (not wire gauge) is a major factor. Wire must have no sharp bends. Wire separated from all other wires. Ground wire not inside metallic conduit. No splices.

Now look at a ground wire to that UPS. Maybe 50 feet from breaker box; longer to earth ground. That is far too long. Wire that must have no sharp bends instead has tens of numerous sharp bends – some that are even 180 degree bends. Wire bundled with numerous other wires meaning surges can be induced on those other wires. Numerous splices.

How many times must that ground wire violate basic requirements before we admit the plug-in UPS has no earthing? And still we have not confirmed that a single point earth ground exists. Single point earthing being THE most critical component in any protection 'system'.

That UPS manufacturer never discusses this. So we review his numerical specifications. Where does it list protection for each type of surge? Why no such claim? It does imply protection from a type of surge that typically does not cause damage. But the type that finds earth ground, destructively via an appliance? Not even mentioned.

No wonder its manufacturer does not discuss earthing. No wonder its manufacture hopes you will assume that plug-in UPS protects from all types of surges. That manufacturer simply forgot to mention some absolutely essential facts.

Those whose expertise is board swapping with deny all this. But a days worth of reading defines protection and features that make direct strikes irrelevant. In each case, what do industry

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professionals, recommendations from Standards organizations, commercial broadcasting experience, and even Ben Franklin's demonstration – what is required in every case? Earth ground. Two posts are in can.internet.highspeed on 22 Jun 2007 and 28 Jun entitled "Of lottery tickets and lightning" in:
<http://tinyurl.com/32v3le>

Why are electronics damaged? Lightning seeks earth ground. If not earthed before entering a building, then lightning may overwhelm protection inside that appliances. Did they also forget to mention protection already inside all appliances? But if lightning is permitted a path to earth via an electronic appliance (a direct lightning strike), then damage can result.

We don't stop or absorb what 3 miles of sky could not stop. Only 'magic protectors' claim to do that. The UPS is promoted as if it stops that 3 mile electric path. Meanwhile, real world protectors shunt (connect, clamp, divert, connect) lightning to earth before the surge can enter a building. What defines protection? Single point earth ground.

Lightning damage to electronics is a direct strike. Protection already inside electronics make those lesser events irrelevant. If not earthed before entering a building, then electronics damage is directly traceable to human failure. A protector is only as effective as its earth ground. No single point earthing means no effective protection.

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