



ENERGY SAVINGS F.A.Q.

Does a DPPS system offer energy savings along with protection?

It offers Energy Conservation for the data center

- without the need to touch or compromise the IT equipment;
- without maintenance;
- with a very straight-forward easy-to-install platform.

How is the Energy Savings accomplished?

- The patented DPPS system counters the excess magnetizing force introduced by the IT AC/DC power supplies.
- The net result is lowered kVA.
- Reduced kVA at the rack = reduced load on transformers and UPS = reduced kW at revenue meter.

Load requirements for an easy demonstration

- Most customer premise equipment like PDU transformers and UPS units have voltage and current meters that only operate in 1k increments (e.g. 1kVA, 1 kW, 1kVAr, etc.)
- DPPS anticipates an average 8% savings, which equates to a 1.4kVA change at 15kW of load, 2.4kVA at 30kW of load etc.
- Typically, 5 – 6 racks are needed to achieve this loading requirement.

What has been tested with the DPPS system?

- US Army NIPR/SIPR servers and workstations for the temperature savings and energy reduction.
- Lab with EMC installation for the energy savings.
- Top 5 Marketing Data Bureau production HP and Dell servers tested for temperature, surge, and energy savings.
- We are in the process of getting further validation from the power group at the Illinois Institute of Technology.