

INNOVOLT Power Management

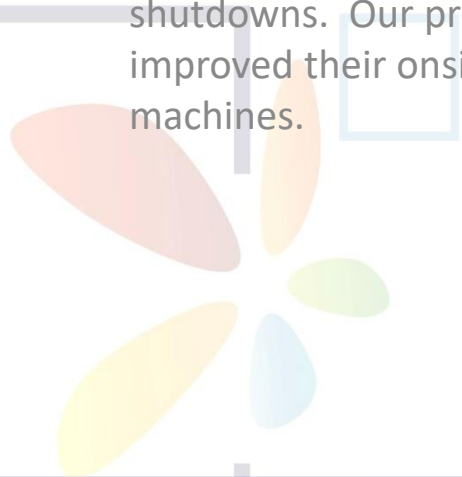
June, 2020

Who we are

TAK Systems Integration Nigeria Limited is a fully indigenous company partnered with Innovolt, a United State of America (USA) based company specializing in Appliance Protection and Power Data Management Technology. The Innovolt product has been deployed throughout the USA in various sectors.

Our product which offer protection against 99.5% of power related problems. Most protection devices only offer protection against Voltage Surges and not against **Voltage Sags** which account for 74.5% of all power related problems. A Voltage Sag causes an increase in Amps which in turn causes damage or failure on equipment.

Our product will reduce your call outs by 85% mostly lockup jams and random shutdowns. Our product do not only protect your machines but also greatly improved their onsite communication units as well as reduce downtime on your machines.



Our Product



Innovolt is a sophisticated microprocessor based electronics protection appliance proven to lower service costs, improve reliability and increase the usable life of electronic equipment.”

Innovolt's technology protects electronic equipment from the various power anomalies that come in through the outlet level and cause minor to severe damage to electronics. Customers that use our devices experience a significant decrease in repair issues. They are able to improve the reliability of their machines, which means their repair costs go down.

These units do not only monitor and remediate the power problem they also report via a cloud management system as to what issues and problems were experienced and repaired. We have reduced call outs by 85% mostly lockup jams and random shutdowns

Our Product....



This essential electronics protection appliance continuously monitors AC power, using advanced microprocessor-based technologies and remediates against the ill effects of power disturbances. With LCD screens alerting to issues immediately, the Power Manager provides deluxe protection and monitoring. In conjunction with the Power Doctor and Power Doctor SmartPhone Adaptor application with the the Innovolt Management Cloud, you can graphically view and analyze the number and type of disturbances your Innovolt appliance has protected against.

We do not only protect your machines but also greatly improved their onsite communication units as well as reduced downtime on your machines.

There are several other reasons that make Innovolt products exceptional from other electronic protection devices. Whenever Overvoltage is presented to an Innovolt device, not only is your connected equipment taken offline, but the MOVs are taken offline as well unlike other power protection devices that conduct or absorb energy whenever Overvoltage occurs.

THE PROBLEM WITH POWER

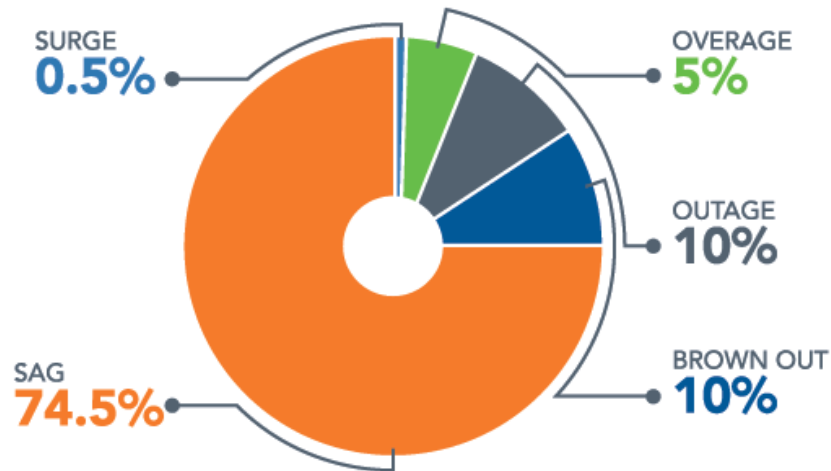
The ever increasing global power issues all stem from a power grid that is archaic and unable to support today's sophisticated electronics. Even a minor voltage fluctuation or other disruption of the electrical signal can wreak havoc on electronic assets causing indescribable device system lockups, board failures, resets, premature equipment failures, and high service and parts costs.

- Today's electronics have low tolerance to voltage level fluctuations
- Data confirms that surge is the most rare of all disturbances while sags account for the majority
- Both external (Grid) and internal (building) disturbances impact the end device causing electronics to malfunction, operate inefficiently, be damaged or destroyed completely
- Traditional surge suppressors DO NOT protect from the vast majority of voltage events attacking your electronic assets



THE FREQUENCY OF POWER DISTURBANCES

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Source: I-Grid Power Monitoring System

POWER ISSUES AFFECT:

YOUR BUSINESS: Lost Revenue | Lost Profitability | Shortened Asset Life Span | Lost Customers

YOUR SERVICE: Service Calls | Labour Costs | Parts Costs | Call Center | Overhead

HOW WE SOLVE THE PROBLEM

Innovolt® combines patented electronics protection technology with comprehensive monitoring and analytics applications to intelligently protect and optimize sophisticated electronics allowing you to:

- Proactively manage electronic assets from the outlet to the cloud
- Utilize patented technology to protect and oversee your fleet of electronics
- Prevent costly service issues before they negatively impact your business
- Maximize equipment reliability, performance and lifespan

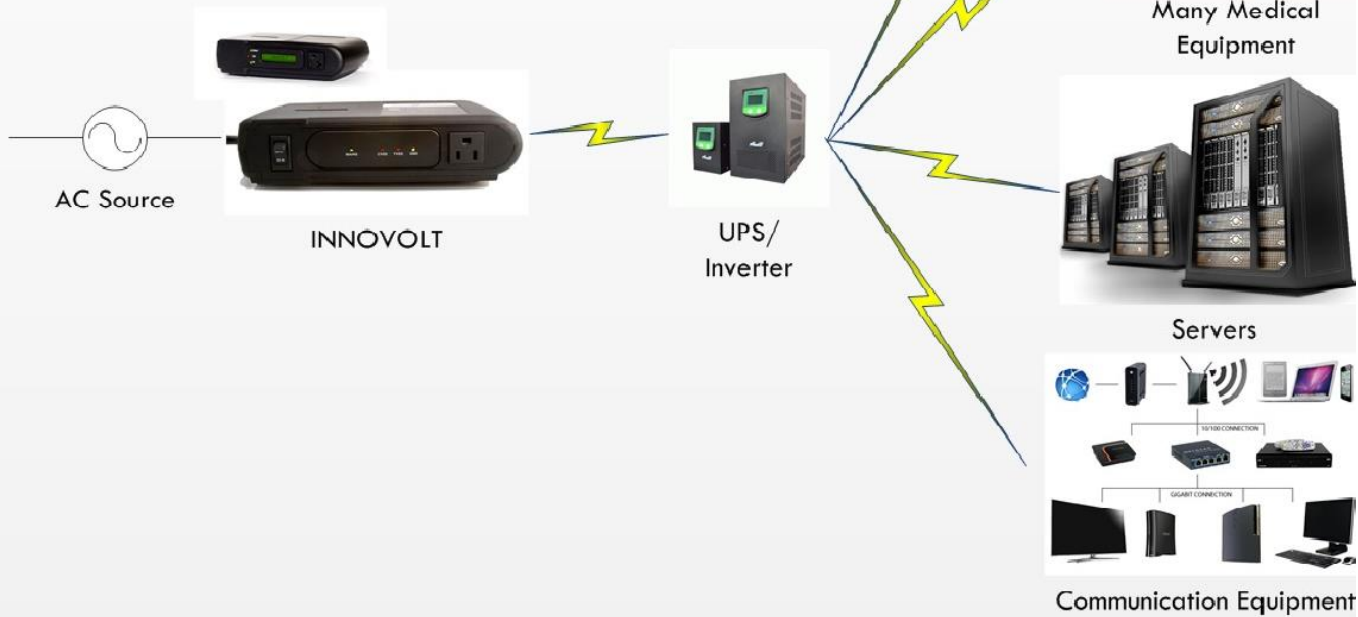
OUR ADDED ADVANTAGES ARE THAT WE HAVE,

**Voltage Sag Protection, Undervoltage Protection , Undervoltage Protection
Internal MOV Protection , Real-time Clock Myth, Current Inrush Protection ,
Data Collection**



Powering Performance

Summary
ATMs
Many Medical Equipment
Servers
Communication Equipment



WHAT WE DO

Innovolt guards expensive and sensitive technology against the damaging effects of power disturbances while simultaneously giving businesses the tools they need to predict, measure, and maximize the performance of assets across the distributed enterprise. The core value of fostering solution to your electronic assets includes:

- Protecting, optimizing and managing your assets
- Extending the life of electronics equipment and reducing cost of ownership
- Increasing productivity and performance
- Increasing asset uptime and lowering service calls
- Improving customer satisfaction and brand loyalty
- Providing a holistic view of the asset environment



OUR TECHNOLOGY

Based on more than twenty years of experience, we have discovered numerous power-related disturbances that could harm your assets. Using a series of patented algorithms and protocols to recognize potential power concerns, we quickly remediate issues before damaging effects occur. We offer multiple technology deployment options through the purchase or licensing of one of our “plug-and-play” appliances or utilizing our implementation services to embed our patented technology in your electronics.



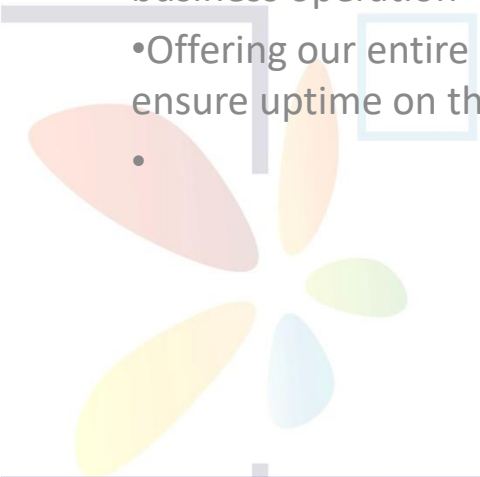
WHY INNOVOLT

We monitor and aggregate key data from your electronic assets, then turn it into actionable information with transparency and analytics that drive efficiencies and cost savings across an organization.

We Deliver Quantifiable Results.

- Proven in the field by global companies and tested in labs used by electrical utilities
- Significantly reduce costs & increase profitability
- Serving thousands of customers globally
- Saving our customers millions of dollars in quantifiable business and service costs
- Saving your Electronic equipment against the prevalence power disturbance
- Embarking on Post installation observation to ensure the smooth running of customer's business operation
- Offering our entire customers the capability of preventive maintenance information to ensure uptime on their electrical system

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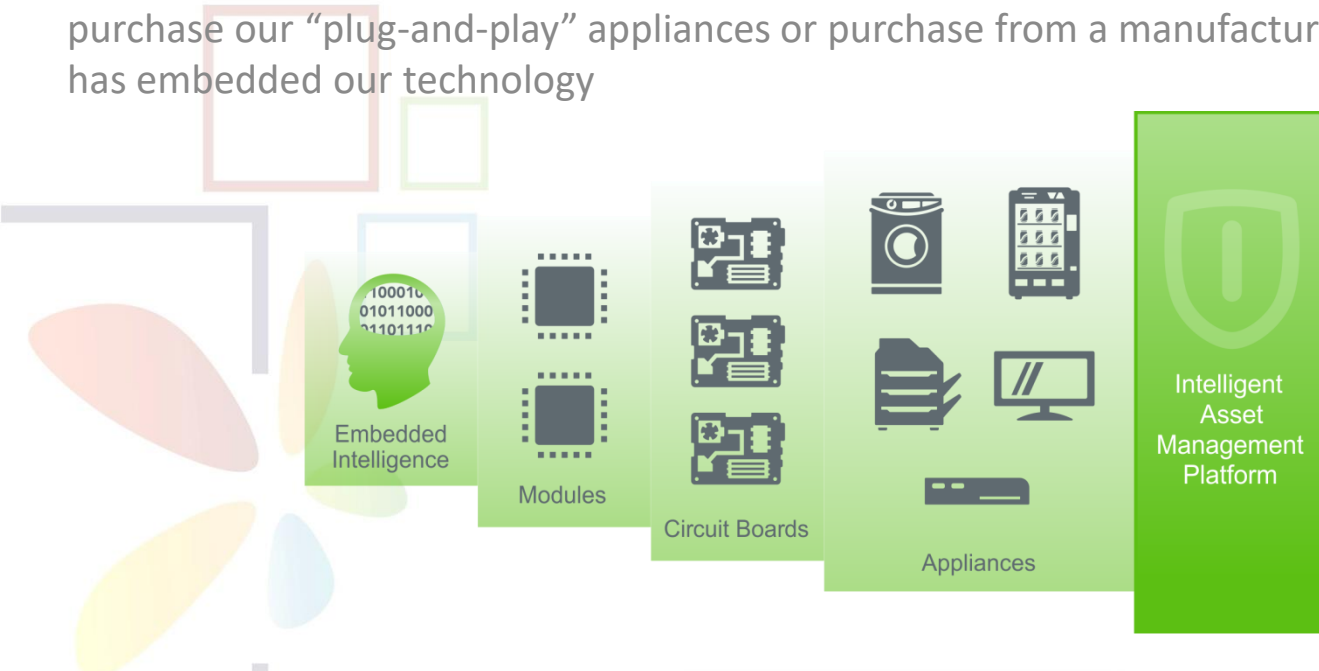
DEPLOYMENT OPTIONS

The diagram below illustrates the deployment options which include:

Embedded Intelligence: Utilizing our microprocessor-based algorithms and product design implementation services, our team of experts work with you to design a customized solution.

Modules or Boards: With our pre-configured modules or circuit boards, you have the flexibility to integrate our system-ready modules or boards into your electronics.

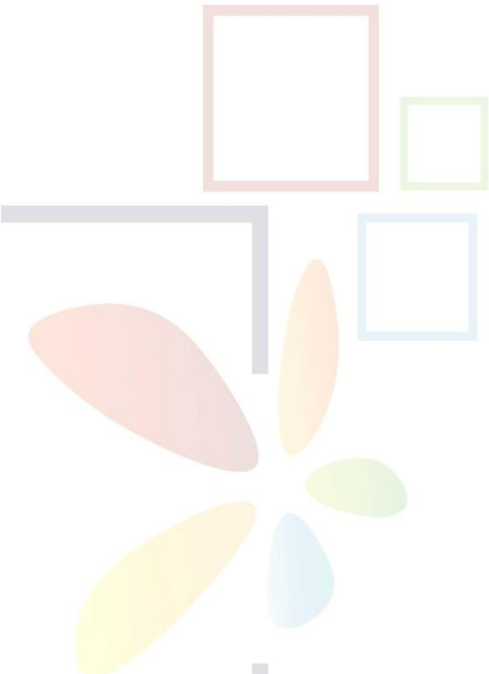
Appliances: To provide an immediately available for use solution, customers can purchase our “plug-and-play” appliances or purchase from a manufacturer that has embedded our technology



Summary

With Innovolt products, we are confident that your electronic equipment are quite protected and safe against the major grid disturbances. Innovolt products are designed and basically centered around power protection thus averts the occurrence of your electronic equipment malfunction and failure.

All of our products protect the connected electronic equipment against the amount of voltage surge likely to make it to any electrical outlet in a home and business.



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