

# Sentry Power System<sup>SM</sup>

**More Intelligent.  
More Reliable.  
Easier to Manage.**



**Server Technology**  
Quality Rack Power Solutions



# Sentry Power System.

The industry's only data center rack-level power system.  
Only from Server Tech.

You want ultra-reliable power distribution within your data center along with the ability to actively manage it. You want to be able to monitor and view your device-level power usage, in real time, deployed at any location across your enterprise. You want trending and advanced analytics at the click of a mouse. You need Server Tech's Sentry Power System.

## What is Sentry Power System?

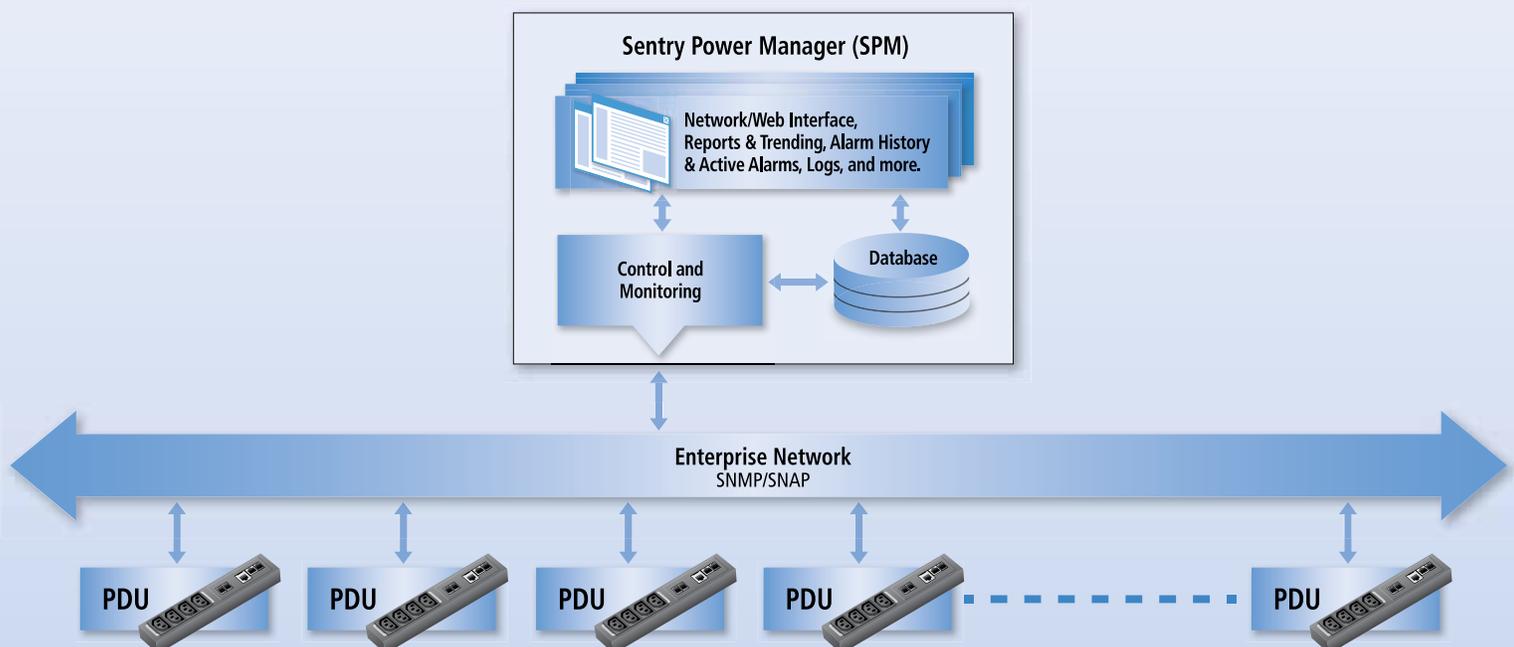
Realizing that customers are looking for ways to simplify their IT infrastructures, the data center power experts at Server Tech designed Sentry Power System to nearly eliminate all of the ongoing deployment and management of intelligent PDUs across an enterprise. Sentry Power system combines the world's most reliable rack-level PDUs with Server Tech's customer-acclaimed Sentry Power Manager (SPM) by adding our exclusive SNAP technology to tightly couple these components. The result? Synergy. The

industry-leading Sentry Power System which is greater in value and more powerful than merely the sum of each component.

## It's a SNAP<sup>SM</sup>.

As a true system, we've combined our Sentry PDUs with our award-winning Sentry Power Manager along with a new exclusive technology we refer to as "SNAP" to create the industry's first true layer rack power system. Server Tech's SNAP technology enables all Sentry PDU devices deployed across your enterprise to behave and be managed as a single combined system. One structure, one view, one management console for all rack-level power devices, regardless of location or quantity.

With Sentry Power System, customers can now realize "Plug & Play" functionality and the ability to configure hundreds or thousands of PDUs with a single mouse click. You simply take the PDU out of the box and plug it into the network. Sentry Power System



# Sentry Power System: Part One

discovers the PDU and configures it to the system parameters. It's that easy. All aspects of day-to-day operational access to your IT infrastructure's power layer is now within reach. Sentry Power System and its exclusive SNAP technology enable you to focus on energy efficiency, uptime and ROI without the obstacles commonly associated with widely diverse and distributed power distribution and control.

The new Sentry Power System. Only from Server Tech.



## Start with the world's most reliable data center rack PDUs.

For over 28 years, Server Technology has been the industry leader in providing the world's biggest companies with the highest quality rackmount power distribution units. Intelligent cabinet-level power distribution units (PDUs) that set the industry-standard for quality, reliability and absolute performance.

## What makes our PDUs the most trusted in the industry?

Our three dozen patented innovations in rack-based power have enabled us to create our unique "Quality Power Architecture" which is found within our entire Sentry PDU hardware product line.

## QPA: The foundation of the world's most reliable PDUs.

What is QPA? The Server Tech Quality Power Architecture (QPA) is the foundation that enables the Sentry PDU solutions to support the quality, breadth and flexibility that are the hallmarks of Server Tech's exceptional line of rackmount PDUs. QPA enables Server Technology to deliver the industry's most comprehensive line of rack-based PDUs that are guaranteed to perform to rated specs over their entire lifespan.

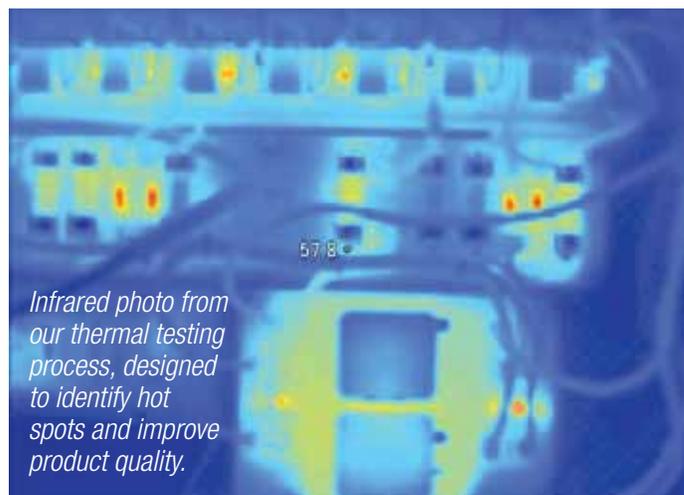
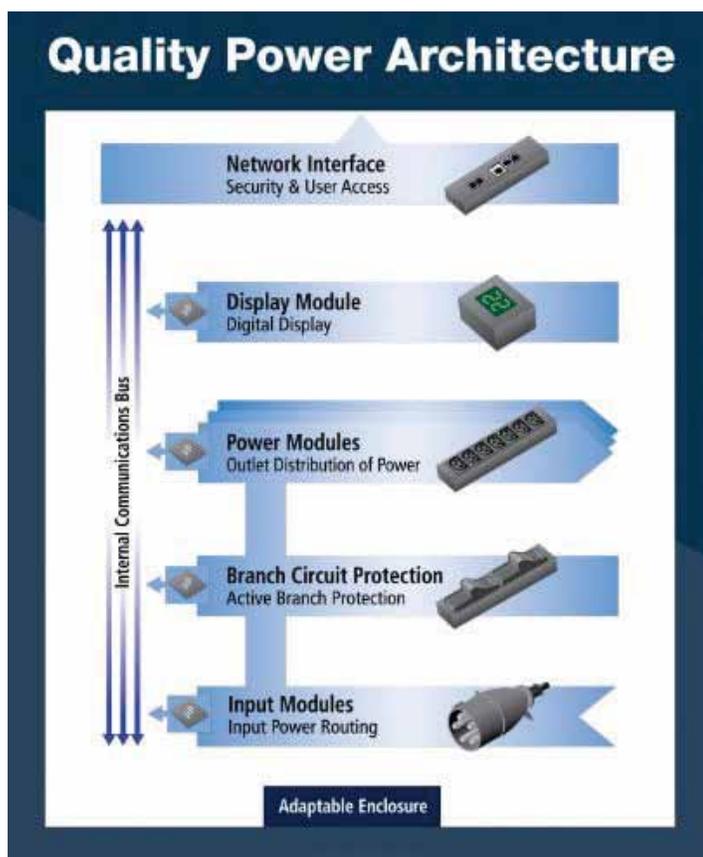
Service and reliability unseen anywhere else. QPA uniquely enables Server Technology to deliver almost any style of data center power, from traditional approaches and high density blade configurations, up to and including 400/415 and even 277/480 volt PDUs. QPA enables customer-centric designs to be created quickly and efficiently with the same high reliability found in every Sentry PDU device. Sentry Power System leverages QPA to create the perfect system of power across your enterprise.

*"These products allow us to get to market earlier. They decrease the length of the test period to get the same amount of data. We did 10 million tests on our last project - if you lose 1% through downtime, that's significant."*

**- Dan Brown, Intel Labs**

*“Customers know that we provide the deep power expertise, the highest product quality and reliability, the configuration flexibility and the fast turnaround that data center professionals need to react to their ever-changing environments. With this in mind, we created Server Tech’s unique Quality Power Architecture, allowing us to quickly develop situation-specific devices with the same quality, reliability and production processes found in all of our products.”*

**- Brandon Ewing, president of Server Technology**



## State of the Art Power Lab

Delivering mission-critical data center power over the lifespan of a data center takes years of engineering experience and a set of engineering resources to empower demanding designers. In our commitment to quality, we have created the industry’s most comprehensive in-house state-of-the-art Power Test Lab where all of our new product designs are validated and tested for long term reliability. Our lab has complete testing facilities for advanced thermal, shock and vibration and emissions along with testing capabilities to ensure compliance with applicable safety standards.



# PERFORMANCE TESTED & APPROVED

## 100% Performance Tested PDUs.

Before any products are shipped to data center or telecommunications customers, Server Technology's QPA allows each sub-assembly to be individually tested on our state of the art Automated Testing Equipment (ATE), then again after they are all assembled into a complete PDU device. Server Tech is the only supplier of PDUs that makes sure every single product is up to the highest quality PDU standards and has the ability to perform at rated specs with a 100% unit test on each and every Sentry CDU prior to being shipped.

### Performance Testing Processes

Vibration	
Thermal	
Board Level Test (BLT)	
Board Level Calibration	
ENA Sub-assembly full functional test	
SKU Final assembly full functional test	
Board Level Validation	
Agency Compliance	
Durability	
High Voltage (Hi-Pot) Testing	

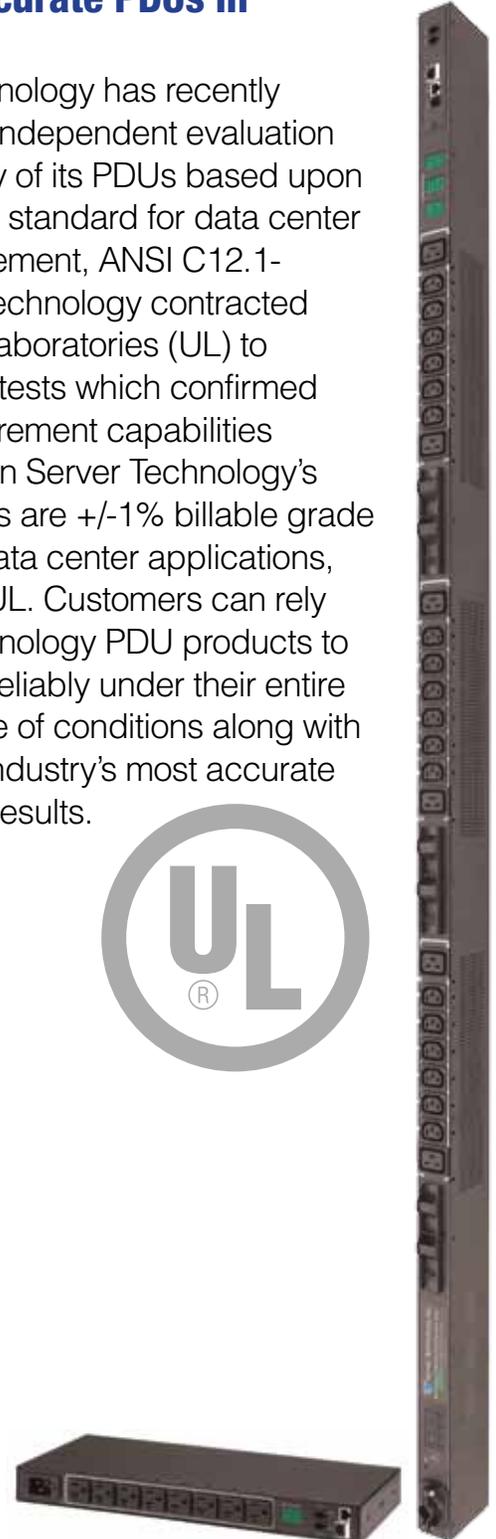
## Support for rising temperatures in the data center.

Data centers are running hotter as the IT equipment contained within becomes more dense. Server Technology has recently completed design reviews for our entire family of Sentry CDU products and established a warranted operating temperature of at least 50-degrees centigrade, with some high-density models supporting 60-degrees

centigrade. This formal support for higher-temperature data centers is part of our overall commitment to reliability for the long term. Our designs are reviewed in these stressed contexts to assure our customers that our solutions will perform for years and years as specified across the entire range of operating conditions including power and temperature.

## The most accurate PDUs in the industry.

Server Technology has recently completed an independent evaluation of the accuracy of its PDUs based upon the recognized standard for data center power measurement, ANSI C12.1-2008. Server Technology contracted Underwriters Laboratories (UL) to conduct these tests which confirmed that the measurement capabilities contained within Server Technology's intelligent PDUs are +/-1% billable grade accuracy for data center applications, as verified by UL. Customers can rely on Server Technology PDU products to deliver power reliably under their entire specified range of conditions along with providing the industry's most accurate measurement results.



# The most PDUs in the industry: Over 2,000 products

Choose the Right Product

		Per Outlet Power Monitoring	Branch Circuit Protection	Input Current Monitoring	Environmental Monitoring	Access, Security & Communications	Expansion Module	Individual Outlet Control
Basic PDU	?		✓					
Metered PDU	?		✓	✓				
Smart PDU	?		✓	✓	✓	✓	✓	
Switched PDU	?		✓	✓	✓	✓	✓	✓
Smart POPS - Per Outlet Power Sensing CDU	?	✓	✓	✓	✓	✓	✓	
Switched POPS - Per Outlet Power Sensing CDU	?	✓	✓	✓	✓	✓	✓	✓
Smart Power Monitors	?			✓	✓	✓	✓	
Remote Power Management	?				✓	✓	✓	✓

## Sentry Power System: Part Two

**Sentry Power Manager – Rack-level data center power management.**

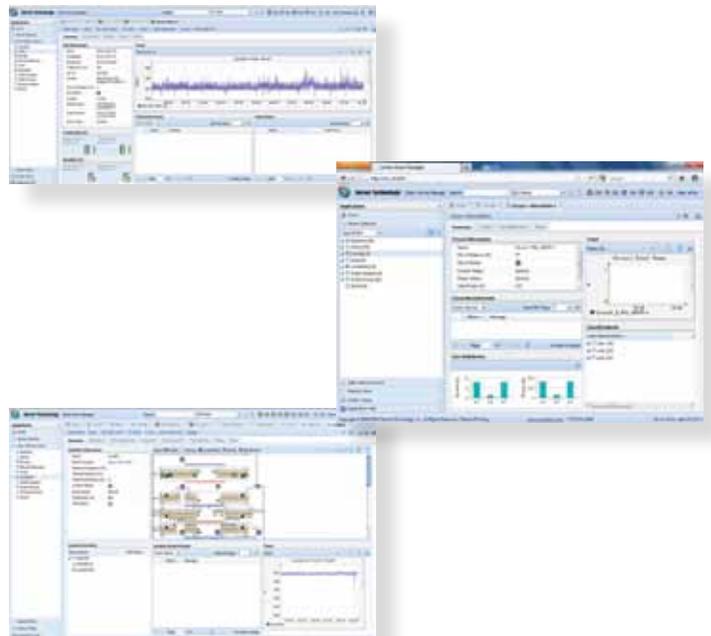
**Manage your entire PDU network from anywhere.**

The most affordable and accurate system available to control, measure, monitor and trend data center power at the rack or device level. A powerful stand alone power monitoring console, or use as middleware for any modern DCIM or BMS solution through web based Application Programming Interface (API).

SPM helps you manage today's biggest data center challenges:

- Outlet level state control & power-cycling for remediation
- Power monitoring at the inlet or outlet level
- Environmental monitoring for all attached sensors
- Manage power phase balancing and N+1 redundancy
- Managing hundreds or thousands of PDUs, globally

- Support “Green” initiatives such as PUE and DCeP metrics
- Provides continuous measurement at any level instrumented
- Remote monitoring and control of any number of data centers
- Virtual or appliance
- Custom views by user
- Load balance 3-phase circuits across cabinet, zone or UPS
- Centralized alarms associated with energy
- Supports capacity planning, efficiency and service availability goals



**Sentry Power System.  
A complete data center power  
management system.**

The combination of Server Technology's intelligent cabinet power distribution units (PDUs) and Sentry Power Manager (SPM) all now enhanced by Server Tech's new SNAP technology gives you the most comprehensive system of power available for rack-level data center power distribution and data center control, monitoring and measurement.

*"Sentry Power Manager doesn't just tell you that a cabinet has a problem; it gets out a map and shows you where the problem is."*

**- Marty Sems, Processor**

Log on.  
Auto Discover.  
Auto Configure.  
Relax.  
Only from Server Tech.

It's a SNAP. Configuring your rack-level PDU network has never been easier. Especially if you have hundreds or thousands of PDUs in your network. With Sentry Power System's new exclusive SNAP technology, you can manage your entire network from a single user friendly dashboard.

**SNAP Functionality**

Plug & Play PDU installation and configuration	✓
Plug PDU into network, right out of the box	✓
SPM auto-discovers PDU and brings into SPM	✓
PDU is configured and ready to go, providing power information right away	✓
Once discovered, SPM can push SNAP configuration templates to PDU	✓
Create custom templates for easy PDU configuration	✓



VMware and VMware Ready is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions.



## Designed by the experts.

No one knows or understands data center power better than the data center power experts at Server Technology. Our laser focus on power and performance at the cabinet level gives us the knowledge, insight and expertise to analyze, evaluate and advise you on how to best achieve your goals - whether they're centered around power management, efficiency, capacity planning, remote management, PUE/DCiE or meeting green initiatives

## The world's top companies rely on Server Technology.

99% of our customers buy from us again. And again. And again. We believe that says something about us. About the quality, performance and reliability of our products. About the speed in which we deliver them to you. And about how our people take care of you with service, product knowledge and technical support. It's why the top Fortune 500 companies order from us and trust us to deliver daily.

Find more information, visit [www.servertech.com](http://www.servertech.com) today.



# Server Technology

Quality Rack Power Solutions

### Headquarters - North America

#### Server Technology, Inc.

1040 Sandhill Drive  
Reno, NV 89521  
United States  
(1) 800 835 1515 Toll Free  
(1) 775 284 2000 Tel  
(1) 775 284 2065 Fax  
[sales@servertech.com](mailto:sales@servertech.com)  
[www.servertech.com](http://www.servertech.com)  
[www.servertechblog.com](http://www.servertechblog.com)

### EMEA

#### Server Technology Intl.

+44 (0) 1628 509053 Tel  
+44 (0) 1628 509100 Fax  
[salesintl@servertech.com](mailto:salesintl@servertech.com)

### APAC

#### Server Technology, Inc.

+65 (0) 9739 0396 Tel  
+00 (1) 6234 4574 Fax  
[salesintl@servertech.com](mailto:salesintl@servertech.com)

Server Technology is an ISO 9000 registered company.

© 2012 Server Technology, Inc. Sentry and Sentry Power Manager are trademarks of Server Technology, Inc.