The vision of Mitsubishi is to continuously produce value add products instilled with ingenuity and breakthrough technologies. This vision brings you the 9900A Series, our most efficient, smallest footprint and lightweight UPS product series.

The Power of Green

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True, on-line, double conversion UPS systems have always been the preferred topology for mission critical applications because they offer lower risk of load loss. In the past, however, these systems offered lower efficiency when compared to off-line, delta conversion, economy mode and other standby type UPS systems. That was until now!

Mitsubishi’s patented technology provides for a true on-line UPS system that offers high efficiencies no matter what the load. There is no longer a need to compromise system availability by using risky topologies to achieve high efficiency.

Highly Efficient True On-line Double Conversion Topology

> Reduced UPS Module Operating Losses
> Reduced Cooling Equipment Needs

Compact Design Offering Superior Performance

> Small Footprint and Lightweight
> Excellent Transient and Load Demand Response

Exceptional Efficiency

The 9900A Series UPS delivers as much as 97% system efficiency, which reduces operating and cooling costs significantly, when compared to its competitors. The 9900A Series UPS has efficiency ratings as high as 94% with loads as low as 20%. The result: reduced cost of ownership and improved power usage effectiveness (PUE) compared to conventional UPS.

Compact Lightweight Design

The small footprint and lightweight design of the 9900A Series saves on precious data center floor space. This system not only saves on floor space, it offers the flexibility of adding or removing modules with minimal cost. As a result, system options are enhanced.

The 9900A UPS system uses the most advanced Insulated Gate Bipolar Transistors (IGBT) in both the converter and Inverter. This unique combination simply means our 9900A UPS offers superior reliability, performance, and is the most efficient true on-line double conversion UPS in the industry at all load levels.

Mitsubishi Electric raises the bar with the introduction of the 9900A Series Uninterruptible Power Supply (UPS). Its patented inverter design delivers the highest efficiency in the industry to go along with the quality and reliability that users are accustomed to when specifying Mitsubishi. Let’s explore the benefits that you can expect.

EXCEPTIONAL EFFICIENCY

The 9900A UPS system delivers the highest efficiency in the industry. Mitsubishi pioneered the use of the IGBT (Insulated Gate Bipolar Transistors) in the UPS industry. This unique combination of the smallest footprint and lightweight design of the 9900A Series makes it superior to competitive UPS systems on the market today. Mitsubishi Electric’s advanced, high-performance transistors provide a variety of intelligent features:

- **Large Power Capabilities**
- **High Speed Switching**
- **Low Control Power Consumption**
- **Low Switching Loss**

IGBTs have become the preferred power device for UPS systems, but it is how the IGBT power device is controlled that is key to achieving optimum UPS performance.

SCALABILITY

The 9900A Series UPS provides a variety of communication features that make the product extremely easy to use and maintain.

SUPERIOR PERFORMANCE

Mitsubishi provides the ease of use of the IGBT in the inverter and converter sections of the UPS. Many UPS systems on the market today have followed suit. It is not enough to merely provide IGBT technology. How the IGBT is controlled is the key.

Mitsubishi has incorporated its Digital Signal Processor and Direct Digital Control (DDC) to gain the full benefits of the most advanced generation IGBT that is utilized in the 9900A Series UPS. The combination means superior performance characteristics under all load conditions.

RELIABILITY AND ADAPTABILITY

No organization in the UPS industry offers the reliability and flexibility with cost saving scalability and reduced footprint.

OPEN ARCHITECTURE

The Mitsubishi 9900A Series UPS systems are the best performing, most reliable UPSs in the market.

Because each module features its own static inverter and converter section, system reliability is enhanced. System not only saves on floor space, it offers the extraordinary option of adding or removing modules with minimal cost. As a result, system availability is enhanced.

SUPERIOR PERFORMANCE

Mitsubishi has incorporated its Digital Signal Processor and Direct Digital Control (DDC) to gain the full benefits of the most advanced generation IGBT that is utilized in the 9900A Series UPS. The combination means superior performance characteristics under all load conditions.

STANDARD FEATURES

- Fully Digital IGBT Converter and Inverter
- Advanced 3-Level Circuit Topology and Pulse Width Modulation (PWM)
- Parallel up to Four (4) Modules
- Front Access UPS
- Small Footprint and Weight: U.S. 177 Lbs.
- ENERGY STAR certified

AC INPUT

- 480VAC 3P, 3W, 60 Hz
- +15%, -20% Voltage Range
- <3% THD @ 100% Load
- Power Factor: 0.9
- Voltage Accuracy: ± 1%
- Frequency Accuracy: ± 0.5%
- Total Harmonic Distortion: <5%
- Soft Start: 4% ramp/110Hz
- System Load Bank Test Circuit
- System Load Bank Test Circuit (Optional)
- Cross Current Sensorless Control
- Up to 4 UPS Modules in Parallel
- Modular, Expandable, and Inexpensive
- No organization in the UPS industry offers the reliability and flexibility with cost saving scalability and a reduced footprint.

EFFICIENT up to 97% system efficiency

This system efficiency reduces the cost for your company. To illustrate:

- Even at 10%, load efficiency ratings greater than 90% are seen. This system efficiency compared to conventional UPS.
- Reduced cost of ownership (COP) results in annual savings of millions of dollars. That is why we have developed the 9900A series UPS – our most innovative and efficient UPS ever.

The 9900A UPS System is the most efficient system in the industry. This unique combination simply means our 9900A UPS offers superior reliability and the most efficient system in the industry.

FLEXIBLE system flexibility

The Mitsubishi 9900A Multi-Module System (MMS) incorporates individual parallel control and static bypass circuitry to each individual UPS Module. Our 9900A MMS therefore offers complete system redundancy, reliability and flexibility with cost saving scalability and a reduced footprint.

SERIES >9900A UPS

The 9900A UPS system uses the most advanced Insulated Gate Bipolar Transistors (IGBT) in both the inverter and inverter. This unique combination simply means our 9900A UPS offers superior reliability and the most efficient system in the industry.

RELIABILITY AND ADAPTABILITY

No organization in the UPS industry offers the reliability and flexibility with cost saving scalability and a reduced footprint.