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 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.

The Power of Green

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

**High Efficiency**

without compromise

The NEW 9900B Series UPS will deliver as much as 97% system efficiency at unity power factor. This substantially reduces operating and cooling costs by several thousands of dollars annually when compared to its competitors. Efficiency ratings of 96.2% are possible with loads as low as 25%. The result: reduced cost of ownership and improved power usage effectiveness (PUE) compared to conventional UPS.

**Compact Lightweight Design and Flexibility**

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

Mitsubishi Electric Power Products, Inc. (MEPPI)
Uninterruptible Power Supplies (UPS) Division
547 Keystone Drive • Warrendale, PA 15086
Phone: 724-772-2555 • 800-887-7830

www.mitsubishicritical.com
UPPsales@meppi.com
EXCEPTIONAL EFFICIENCY
The 9900B Series 750 kVA UPS, with a very flat efficiency curve, delivers efficiency ratings of 96.7% at 30% load, 98.5% at 50% – 75% loads, and 97.5% at 75% load. Even at 10% load, the efficiency rating is 93.1%. This efficiency level substantially reduces operating and cooling costs by thousands of dollars annually. The reduced cost of ownership and improved power usage effectiveness (PUE) compared to conventional UPSs.

RELIABILITY AND ADAPTABLENESS
In no organization in the UPS industry offers the in-depth experience and unparalleled quality of Mitsubishi Electric. Mitsubishi manufactures most of the components that make up its UPS, rather than sourcing the components elsewhere and merely assembling the product. In that way, Mitsubishi has total control over the quality of the product, hence its reliability when utilized at your site. In fact, Mitsubishi is one of the largest manufacturers of IGBTs in the world.

The 9900B UPS can be utilized in Single-module (SMS) or Multi-module (MMS) configurations. This allows for a modular system architecture, offering a highly reliable and flexible approach. If loads on an MMS decrease, a module or modules can be removed and used elsewhere in a single-module application. Likewise, an existing SMS can be paralleled for capacity or redundancy at a later date.

FACTS
The modular architecture and the most advanced fully digital true-on-line IGBT converter and inverter in the industry makes the 9900B UPS the best choice for your critical facility.

S C A L A B I L I T Y
The small footprint and lightweight design of the 9900B Series take up less room and saves on precious data center floor space. With a modular system architecture, this unit only uses floor space, it can also be installed in a cabinet, if necessary. It offers the extraordinary option of adding or removing modules with minimal cost.

OPEN ARCHITECTURE
The 9900B Series UPS provides for a variety of communication methods with features that make the product inherently easy to use and maintain.

SUPERIORITY
Mitsubishi pioneered the use of the IGBT as 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, however the IGBT is controlled in the key.

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

Mitsubishi Electric Carrier
Stored Trench-Gate Bipolar Transistor (STGBT) Module

Mitsubishi Electric is the leading manufacturer of Outdoor Gate Bipolar Transistors (IGBTs).

Carrier Stored Trench Gate Bipolar Transistor - CSTBT 4 5th Generation IGBT Device - Utilizes advanced, high-performance bipolar technology (CSTBT) Module. These advanced, high-performance IGBTs have become the preferred power device for UPS systems. These advanced, high-performance transistors provide a variety of intelligent features:

> Larger Power Capabilities
> High Speed Switching
> Low Control Power Consumption
> Low Switching Loss

IGBT has become the preferred power device for UPS systems, it is true that the IGBT power device is standardized that is key to achieving optimum UPS performance.

SUPERIORITY PERFORMANCE
The 9900B UPS, with its modular system architecture, can be utilized in Single-module (SMS) or Multi-module (MMS) configurations. It leads on an MMS framework, a module or modules can be removed and used elsewhere in a single-module application. Likewise, an existing SMS can be paralleled for capacity or redundancy at a later date.

FLEXIBLE SYSTEM FLEXIBILITY
The 9900B, with its modular system architecture, include:

> Cross Current Sensing Control
> Super Power Capacity
> Communication Input/Output Distribution
> System Load Bank Test Circuit
> Parallel Redundancy or Capacity System Configuration.
The modular architecture and the most advanced fully digital three-level IGBT converter and inverter in the industry makes the 9900B UPS the best choice for your critical facility.

**RELIABILITY and ADAPTABILITY**

No organization in the UPS industry offers the in-depth experience and unparalleled quality of Mitsubishi Electric. Mitsubishi manufactures most of the components that make up its UPS, rather than sourcing the components elsewhere, and mass-producing the module. In that way, Mitsubishi has been able to control quality of the product, hence its reliability when installed at your site. In fact, Mitsubishi is one of the largest manufacturers of IGBTs in the world.

The 9900B UPS can be utilized in Single-module (SMS) or Multi-module (MMS) architecture. This allows for a modular system architecture, offering a highly reliable and adaptable approach. If loads on an SMS increase, a module or modules can be removed and used elsewhere in a single-module application.

Mitsubishi Electric Carrier Store nched Trench-Gate Bipolar Transistor (CTSTB) Module

Mitsubishi Electric is the leading manufacturer of productized Gate Bipolar Transistors (IGBT). The 9900B UPS, with its modular system architecture, can be utilized in Single-module (SMS) or Multi-module (MMS) configurations. It offers an advanced design, a modular or module can be removed and installed in a single module application. Likewise, an existing SMS can be paralleled for capacity or redundancy at a later date.

**OPEN ARCHITECTURE**

The 9900B Series UPS provides for a variety of communication methods with features that make the product inherently easy to use and maintain.

**SUPERIOR PERFORMANCE**

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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 9900B Series UPS. The combination results in superior performance characteristics under all load conditions.

**OPEN ARCHITECTURE**

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SERIES 9900B UPS

At Mitsubishi Electric Power Products, Inc., we understand that in today’s high-speed, digital world, critical load downtime can cost your company millions of dollars. That is why we have developed the 9900B UPS – the most innovative and efficient true on-line, double conversion UPS.

EXCEPTIONAL EFFICIENCY

The 9900B Series 750 kVA UPS, with its very flat efficiency curve, delivers efficiency ratings of 96.7% at 30% load, 96.5% at 50% – 75% loads, and 95.7% at 100% load. Even at 10%, load efficiency ratings of 90% are seen. This system efficiency substantially reduces operating and cooling costs by several thousands of dollars annually. The result: reduced cost of ownership and improved power usage efficiencies (PUE) compared to conventional UPSs.

RELIABILITY AND ADAPTABILITY

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MITSUBISHI ELECTRIC CARRIER STORED TRENCH-GATE BIPOLAR TRANSISTOR (STGBT) MODULE

Mitsubishi Electric is the leading manufacturer of Trench-Gate Bipolar Transistors (IGBT). Mitsubishi has pioneered the use of the IGBT in the inverter and converter sections of the UPS. Many UPS systems on the market today have followed inverter and converter sections of the UPS. Many UPS systems on the market today have followed inverter and converter sections of the UPS. Many UPS systems on the market today have followed inverter and converter sections of the UPS. Many UPS systems on the market today have followed inverter and converter sections of the UPS. Many UPS systems on the market today have followed inverter and converter sections of the UPS. Many UPS systems on the market today have followed inverter and converter sections of the UPS. Many UPS systems on the market today have followed inverter and converter sections of the UPS.

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OPEN ARCHITECTURE

The 9900B Series UPS provides a variety of communication methods with features that make the product highly reliable to use and maintain.

SUPERIORITY FEATURES

- >Large Power Capabilities
- >High Speed Switching
- >Low Cost Power Conversion
- >Low Switch Loss

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

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Mitsubishi’s 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.

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HIGH EFFICIENCY without compromise

9900B UPS SERIES

EXCEPTIONAL EFFICIENCY

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COMPACT LIGHTWEIGHT DESIGN AND FLEXIBILITY

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

- **High Efficiency without Compromise**
- **Compact Lightweight Design and Flexibility**
- **Exceptional Efficiency**
- **Reduced Cost of Ownership**

**9900B UPS Series**

- **750 kVA/500 kVA**
- **500 kVA/300 kVA**
- **300 kVA/300 kW**

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