

# > 9900B UPS

UNINTERRUPTIBLE  
**POWER SUPPLIES**

750KVA

NEW PRODUCT RELEASE

## Efficiency & FLEXIBILITY

### EXCEPTIONAL EFFICIENCY

The NEW 9900B Series UPS will deliver as much as 97% system efficiency which substantially reduces operating and cooling costs by several thousands of dollars annually when compared to its competitors. Efficiency ratings of as much as 93% are possible with loads as low as 10%. The result: reduced cost of ownership and shorter payback when compared to conventional UPS.

### COMPACT LIGHTWEIGHT DESIGN

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

*The 9900B UPS system uses the most advanced Carrier Storage Trench-Gate Bipolar Transistors (CSTBT) in both the converter and inverter. This unique combination simply means our 9900B UPS offers superior reliability and the most efficient system in the industry.*



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 - our most innovative and efficient UPS.

### STANDARD FEATURES

- > Fully Digital 3 Level, IGBT Converter and Inverter
- > Advanced Circuit Topology and Pulse Width Modulation (PWM)
- > Parallel up to Eight (8) Modules
- > Front Access UPS
- > Small Footprint and Weight
- > Top or Bottom Cable Entry
- > UL 1778 Listed

### DC LINK VOLTAGE

- > 480 V

### AC INPUT

- > 480VAC 3P, 3W, 60 Hz
- > +15%, -20% Voltage Range
- > <3% THD @ 100% Load
- > Power Factor: >0.99
- > Surge Withstand: meets IEEE, 587. ANSI C62.41-1991

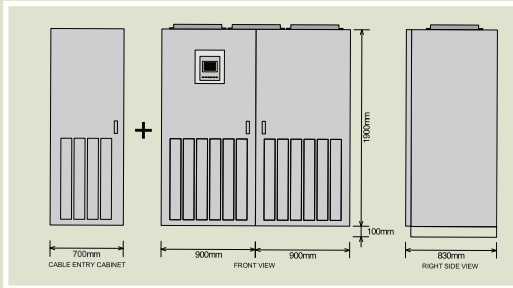
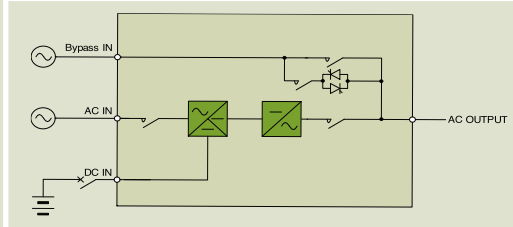
### OPERATING ENVIRONMENT

- > Audible Noise: 75dB @ 1 Meter
- > Temperature: 0-40°C
- > Relative Humidity: 5-95% (Noncondensing)
- > Altitude: 0-7,400 ft.

### AC OUTPUT

- > 480 VAC 3P, 3W, 60 Hz
- > Power Factor: 1.0
- > Voltage Accuracy: ±1%
- > Transient Recovery Time: 20 Milliseconds
- > Step Load (100%): ±2%
- > Voltage THD: 2% Maximum @ 100% Linear Load
- > Overload: 125% for 10 Minutes, 150% for 1 Minute

### 9900B ONE LINE DIAGRAM



Tentative specifications.

KVA	INPUT	OUTPUT	OUTPUT PF	DIMENSIONS (WXDXH)*	LBS*	PARALLEL CAPABILITIES	DC
750	480 VAC	480 VAC	1.0	101" X 33" X 80.6"	4740	UP TO 8 MODULES	480 VDC

\*Dimensions and weight are estimated.



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

Mitsubishi Electric is the leading manufacturer of Insulated Gate Bipolar Transistors (IGBT).

Customized power modules incorporating Carrier Stored Trench-Gate Bipolar Transistors—CSTBT (A 5th Generation IGBT Device) are utilized in the 9900B Series UPS Systems. These advanced, high-performance transistors provide a variety of intelligent features:

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

IGBT has 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.

# RELIABILITY

## 5-year-warranty\*

\*with purchase of warranty inspection program in years 2, 3, 4, 5. If warranty inspection program is not purchased, then standard 3-year warranty applies.

### 9900B MODULE FLEXIBILITY

Because each module features its own static bypass and control circuitry, the 9900B UPS can be utilized in single module (SMS) or multi-module (MMS) configurations. This allows for a highly reliable and flexible system approach. If loads on a 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.

### MMS FEATURES INCLUDE:

- > Up to 8 UPS Modules in Parallel
- > Cross Current Sensorless Control
- > System Operation and Monitoring from any UPS Module
- > Adaptable for MMS or SMS Operation
- > Customizable Input/Output Distribution
- > System Load Bank Test Circuit (Optional)
- > Parallel for Redundant or Capacity System Configuration



The quality management system of Mitsubishi Electric Corporation Kobe Works has been approved to ISO9001:2000.

The quality management system is applicable to design, development and manufacturing of the UPS.

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