



# DiamondPlus™ 1100 Series

# Mission Critical Uninterruptible Power Supplies



Since 1986, Mitsubishi Electric Power Products, Inc. has manufactured precision-engineered Uninterruptible Power Supplies (UPS) to protect our customers' investments in their mission-critical equipment. Mitsubishi Electric's UPS systems are unsurpassed in reliability and efficiency. We are dedicated to developing the best UPS systems on the market, and provide unrivaled service for the lifetime of your UPS.

## The DiamondPlus™ 1100: UPS Superior Technology

The DiamondPlus 1100 UPS Series is the latest generation UPS system offered by Mitsubishi Electric. With efficiencies up to 93.4%, a high 0.9 output power factor, and lightweight, compact design, the DiamondPlus 1100 is both green and smart. It gives energy conscious users an alternative UPS solution to meet their needs. Upgradeable in 10 kVA

increments up to 50 kVA, the DiamondPlus 1100 can be arranged in an N+1 configuration, increasing the system's availability and reliability.

### Reduced Cost of Ownership

The DiamondPlus 1100 is designed to protect your data and equipment while minimizing downtime that may arise due to power irregularities or failures. If left unprotected, these irregularities such as surges, spikes, and sags can shorten the life of mission critical equipment. Additionally, the negative impact caused by an unplanned power outage can be huge: lost productivity, lost revenue, lost records, damaged equipment and / or products, safety concerns, and unhappy customers are just a few of the possible undesirable outcomes of an unexpected disruption in power. Generally speaking, the life expectancy of a UPS is 15-20 years, and spreading the cost of the unit over its lifetime reduces the cost of ownership. Furthermore, balancing

its purchase cost against the potential costs of lost data can often easily justify its purchase.

### Small Footprint / High Efficiency

The compact DiamondPlus 1100 is available in a variety of power ratings ranging from 10 – 50kVA. Its impressive efficiency exceeds 93% at a nominal operating range. Additionally, it has a fully-digital screen and front access, which allows for easy monitoring and faster repair times.

### Flexible / Hot Swappable

As with every Mitsubishi Electric UPS system, the DiamondPlus 1100 series is designed with serviceability in mind. The DiamondPlus 1100's power and battery modules are "hot swappable" for maximum flexibility and rapid mean-time-to-repair (MTTR). The DiamondPlus 1100 series is fully supported by Mitsubishi Electric Power Products' 7x24x365 preventive and corrective services, training and application expertise.

## Standard Features

- Fully-digital IGBT converter and inverter
- Hot swappable modules
- Pulse Width Modulation (PWM) controls
- On-line upgradable
- Front access UPS
- Small footprint and lightweight. Dimensions: 55.1" H x 19.7" W x 27.0" D
- UL 1778 listed

## AC Input

- 208V/120V, 3P, 4W, 60 Hz
- +15%, -30% voltage range
- Reflected Current Harmonic Distortion (THD) 4% @ 100% load, 7% @ 50% load (Typical)
- Power factor: 0.98 at 50% and 100% load
- Surge withstand meets IEEE 587, ANS/IEEE C62.41, Category B

## AC Output

- 208V/120V, 4W, 60 Hz
- Power factor: 0.9
- Voltage Regulation: +/-1% Balanced, +/-2% Unbalanced loads
- Frequency Regulation 60 Hz +/-0.01%
- Step Load (100%) +/- 3% variation, recovery less than one cycle
- Voltage THD: 2% Maximum @ 100% Linear Load; 5% @ Nonlinear Load
- Overload: 105-125% -60 sec; 126-150% -30 sec
- EMI Compatibility: FCC Article 47, Part 15 Subpart B, Class A

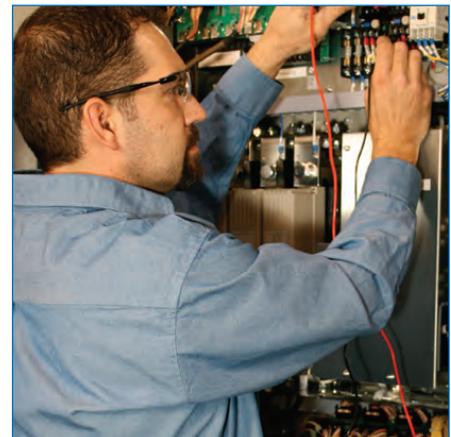
## Operating Environment

- Audible Noise 58 dB @ 1 Meter
- Temperature: 0-40 degrees C
- Relative Humidity: 5-95% (Non-condensing)
- Altitude: 0-5,000 ft.

## World-Class Service and Support

Mitsubishi Electric Power Products, Inc. is dedicated to the post sales support of our customers. To this end, Mitsubishi Electric offers a wide array of choices for service of the UPS Systems products. These choices range from on-site field services to factory performance testing services to 7x24x365 product technical support. Working in partnership with Mitsubishi Electric for the service needs of your product will ensure that you receive the best value for your service dollar. In addition, you can be assured that you are working with a premier organization which has the resources to provide the solutions necessary to maximize your system reliability.

Mitsubishi Electric is dedicated to providing the most efficient and reliable UPS's available today. Contact us to discuss your specific requirements at 724.772.2555, or visit our website at [www.meppi.com](http://www.meppi.com).





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