



for a greener tomorrow



DiamondPlus™ 1100 Series

■ Uninterruptible Power Supplies

Mission Critical Uninterruptible Power Supplies



Mitsubishi Electric Power Products, Inc. manufactures precision-engineered Uninterruptible Power Supplies (UPS) and systems that are unsurpassed in reliability and efficiency. We are dedicated to developing the best UPS systems on the market, and providing 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. It carries on the exceptional standards of excellence that customers depend on, and that Mitsubishi Electric is proud to uphold.

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.

High Efficiency

The DiamondPlus 1100 has a compact and lightweight design which is available in a variety of power ratings ranging from 10 – 50kVA. Additionally, it carries an efficiency rating as high as 92.9%, at a nominal operating range. Please see Table 1.

Flexible / Hot Swappable

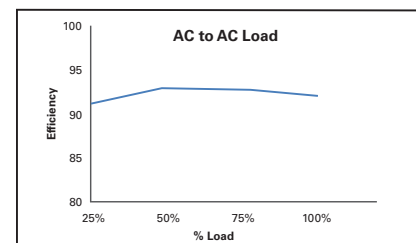
The DiamondPlus 1100 Series is module redundant, and flexible in structure, allowing it to be easily extended by adding modules as required.

Small Footprint / Lightweight

Additionally, it has a fully-digital screen and front access, which allows for easy monitoring and faster repair times.

Table 1. Efficiency Chart

Capacity (kVA)	AC to AC			
	100%	75%	50%	25%
10	92.2	92.4	92.4	90.5
20	92.3	92.6	92.5	90.9
30	92.3	92.8	92.6	91.0
40	92.2	92.8	92.7	91.1
50	92.1	92.8	92.9	91.2



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.





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