

0.1123	1.0801	1.02%	20.232
0.118	1.082	+ 0.18%	11.900
1.121	0.1201	+ 0.33%	N/A
1.232	1.0908	+ 1.53%	10.201
1.186	1.1611	+ 0.33%	13.293
601	0.1002	+ 0.87%	N/A
662	0.105	+ 0.11%	20.160
91	1.230	+ 0.11%	N/A
13	1.1577	+ 1.12%	N/A
71	0.873	+ 3.23%	1.662
2	0.1150	+ 2.14%	10.20
	0.1123	+ 2.18%	0.87
	0.118	+ 1.36%	1.12
	1.121	+ 1.66%	



**DiamondPlus® 1100**

**UPS Series**

1100A and 1100B

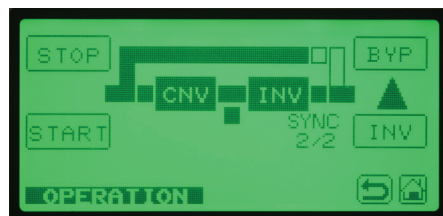


# ■ Superior UPS Technology for Mission Critical Applications

The DiamondPlus® 1100A and 1100B UPS Series are the newest generation UPS systems offered by Mitsubishi Electric. With efficiencies over 93%, a high 0.9 output power factor, and lightweight, compact design, the DiamondPlus® is both green and smart. It gives energy conscious users an alternative UPS solution to meet their needs. Both the 1100A (10-50 kVA) and the 1100B (50-80 kVA) configurations are upgradeable in 10 kVA increments.

The DiamondPlus® 1100 UPS Series is an optimal solution for protecting power equipment. As a true on-line three phase double conversion UPS system, customers can be assured that their needs are met for back-up power. With energy costs ever increasing in the marketplace, the DiamondPlus® 1100 provides a reduced Total Cost of Ownership with its compact footprint, high energy efficiency, and flexible modular design, among other factors. With reliable back-up power in place, our customers can have complete piece of mind.

Both have fully-digital screens and are front access, which allows for easy monitoring and faster repair times.

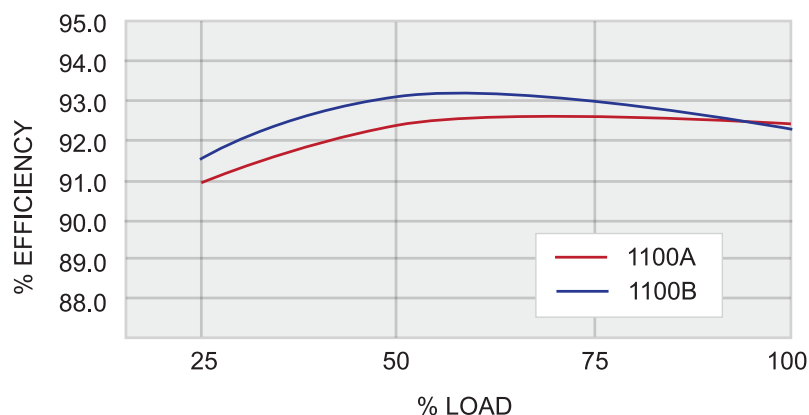


The DiamondPlus 1100's power and battery modules are "hot swappable" for maximum flexibility and rapid mean-time-to-repair (MTTR).



## AC to AC Efficiencies

Series	Capacity (kVA)	AC to AC			
		100%	75%	50%	25%
1100A	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
1100B	50	92.2	93.0	93.1	91.5
	60	92.2	93.0	93.1	91.5
	70	92.2	93.0	93.1	91.5
	80	92.2	93.0	93.1	91.5



*The efficiency of the compact DiamondPlus® 1100 Series peaks at over 93% at a nominal operating range.*





## ■ Common Specifications:

### 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
- UL 1778 listed
- UL 924 compliant configurations available

### Operating Environment

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

### AC Output

- **Output Power:**  
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

### AC Input

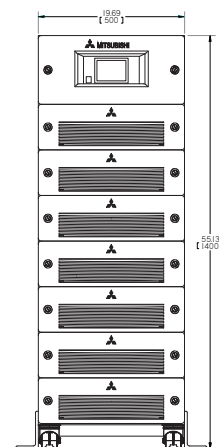
- **Input Power:**  
208V/120V, 3P, 4W, 60 Hz  
(Other voltages available with external transformers)
- **Voltage Range:**  
+15%, -30%
- **Reflected Current Harmonic Distortion (THD):**  
4% @ 100% load  
7% @ 50% load (Typical)
- **Power factor:**  
0.98 at 50% and 100% load
- **Surge withstand:**  
Meets IEEE 587, ANS/IEEE 62.41, Category B

## ■ Distinct Specifications:

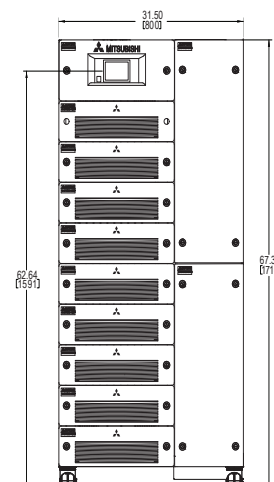
	<b>1100A</b>	<b>1100B</b>
kVA	10 - 50	10 - 80
Batteries	10 & 20: Interior 30-50: external cabinet required	10-80: external cabinet required
Dimensions	55.1"H x 19.7"W x 27.0"D	67.3H x 31.5"W x 27.0"D
Weight (lbs)	685 (10 kVA, with internal batteries) – 465 (50 kVA, without internal batteries)	498 (10 kVA) – 807 (80 kVA) (without internal batteries)

- \* Modules are not exchangeable between 1100A and 1100B
- \* Cable entry for 1100B is on right side, top, and bottom

### ■ 1100A



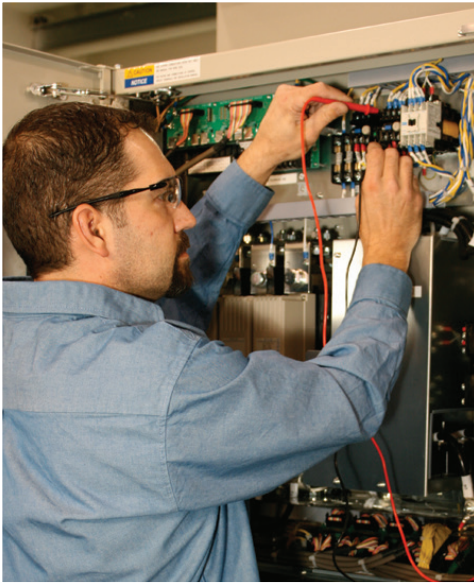
### ■ 1100B



## 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 800.887.7830, or visit our web site at [www.meppi.com](http://www.meppi.com).



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, quality, and efficiency. We are dedicated to developing the best UPS systems on the market, and provide unrivaled service for the lifetime of your UPS.



for a greener tomorrow



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