DIAMONDPLUS® 1100 SERIES DATA SHEET 10 TO 80 KVA

MITSUBISHI ELECTRIC
UNINTERRUPTIBLE POWER SUPPLIES

Ideal for IT closet applications.

The 1100 Series UPS from Mitsubishi Electric is a true on-line, double conversion single phase UPS that will protect your equipment from disruptions in power, such as brown-outs, line noise, voltage transients, and power outages.

With the DiamondPlus® 1100 Series of uninterruptible power supplies, Mitsubishi Electric quality and reliability extends out beyond the facility's utility power room. Perfect for server rooms, network closets, and control rooms, Mitsubishi Electric's DiamondPlus® models provide high performance power protection for lower but still critical loads. Hot swappable power modules provide maximum flexibility for expansion as well as rapid maintenance and repair.

ABOUT US

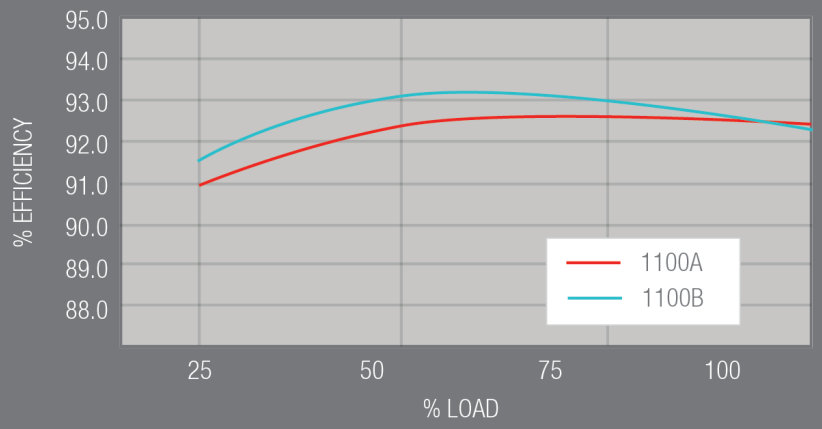
The Mitsubishi Electric name has long been recognized as one of the world's leaders in the manufacture of electrical products. From its founding in 1921, Mitsubishi Electric has been at the forefront of technical ingenuity and product innovation. Since 1964, Mitsubishi Electric has been manufacturing precision engineered highly reliable Uninterruptible Power Supplies and solving the challenges of American critical facilities since 1985. True to form, Mitsubishi Electric has led the way in technological advances of uninterruptible power supplies and is the only brand that manufactures its own semiconductors. Evidence of Mitsubishi's unsurpassed expertise lies in the fact that a Mitsubishi Electric UPS holds the highest efficiency rating for the AC-Double Conversion (VFI) category on the Energy Star web site. Interestingly, Mitsubishi Electric is the only brand to openly share reliability data.

OUR SERVICES

With more than 250 certified technicians in the field, Mitsubishi Electric offers around the clock protection, keeping your operations safe against outages, grid decay and other crucial threats to the flow of business. Offerings include routine maintenance checks, priority demand on parts and service, and 24/7 communication with experienced technical support staff. Comprehensive maintenance inspections include UPS diagnostic reports, complete battery testing, and site hazard checks to keep your systems running at maximum efficiency. Other services include factory witness testing and collaborative engineering. With their highly skilled technicians, day and night technical support, and premier equipment, Mitsubishi Electric has the resources to keep customers safe from the unexpected.

FEATURES & BENEFITS

- Modular & expandable
- Hot swappable power modules
- Space saving footprint
- Transformer-less design using full IGBT power electronics LCD touchscreen display
- UL924 compliant configurations



1100B with
Maintenance Bypass

Battery Cabinet

NOTE: Above illustrations are not to scale.

	1100A (10 to 50 kVA)	1100B (10 to 80 kVA)
Rated Output kVA	up to 50	up to 80
Rated Output kW	up to 45	up to 72
AC INPUT		
Configuration	3 phase 4 wire plus ground	
Voltage	120V/208V +15%, -30%	
Frequency	60Hz ± 10%	
Power Factor	.98 Typical	
Reflected Current THD	4% typ. at 100% load; 7% typ. at 50% load	
BATTERY		
Type	VRLA	
Backup Time	10 kVA: 19 min / 20 kVA: 5 min	N/A (no internal batteries)
Nominal Voltage	288 Vdc	
Minimum Voltage	240 Vdc	
Number of Cells	144	
AC OUTPUT		
Configuration	3 phase 4 wire plus ground	
Voltage	120V/208V	
Voltage Regulation	±1% for balanced load; ±2% for unbalanced load	
Voltage Balance	1%	
Voltage THD	2% maximum at 100% linear load; 5% maximum at 100% non-linear load	
Transient Response	±3% for step load; ±1% for loss/return of AC input; ±5% for retransfer from bypass to inverter	
Transient Recovery Time	16.7 ms	
Frequency	60Hz	
Frequency Regulation	±0.01% in free running mode	
Phase Displacement	±1° for 100% balanced load; ±3° for 100% unbalanced load	
Power Factor	0.90	
Overload Capacity	105% to 125% for 60 sec; 126% to 150% for 30 sec	
ENVIRONMENTAL		
Cooling	Forced Air	
Operating Temperature	32°F to 104°F (0°C to 40°C); Recommended 59°F to 77°F (15°C to 25°C)	
Relative Humidity	5% to 95% non-condensing; Recommended 30% to 90%	
Altitude	0 to 7400 feet (2220 m); 4921 to 7218 feet (1500 to 2220 m) de-derating	
Location	Temperature-controlled, indoor area free of conductive contaminants	
Clearance Required	Top: 16 in; Front: 31.5 in; Rear: 8 in.	
GENERAL		
Weight (lbs)	380 lb min to 685 lb max	675 lb min to 807 lb max
Dimensions (WxDxH)	19.7"W x 27.0"D x 55.1"H	31.5"W x 27.0"D x 67.3"H

Heat Rejection (kBTU/Hr) @ 100% Load	10 kVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	70 kVA	80 kVA
	2.6	5.1	7.7	10.4	13	15.6	18.2	20.8

IT'S TIME TO RETHINK YOUR UPS.

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