


UNINTERRUPTIBLE POWER SUPPLIES

UNINTERRUPTED Peace of Mind

9950A
UPS SERIES
500 kVA | 450 kW

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500 kVA | 450 kW



 **MITSUBISHI
ELECTRIC**
UNINTERRUPTIBLE POWER SUPPLIES

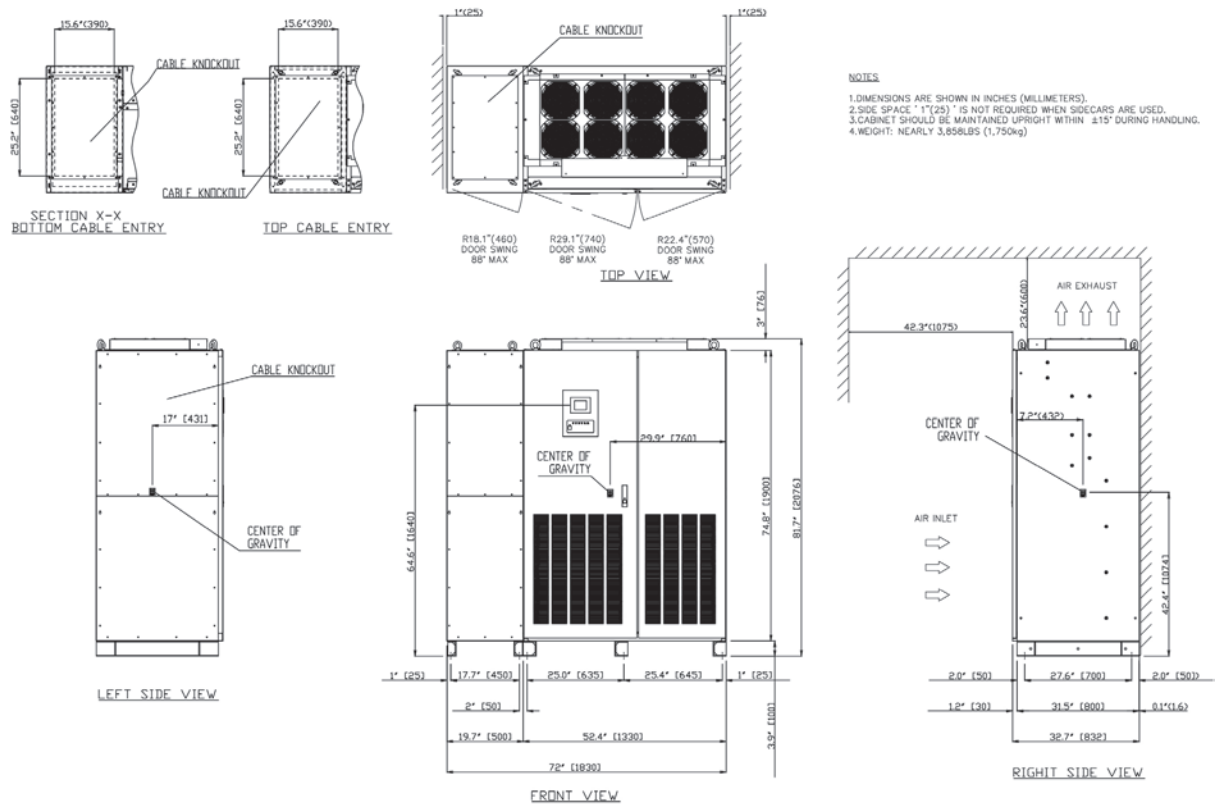
NEW UPS DESIGN IDEAL FOR HIGH-DENSITY DATA CENTERS

The newly introduced 9950A UPS available from Mitsubishi provides mission critical operations an efficient UPS designed for 400 volt power distribution infrastructures. Widely adopted in Europe and Asia, the 230/400V electrical distribution infrastructure eliminates the need for expensive, heavy transformers and extra circuit breakers required for 120/208V power distribution. The higher 230/400V power scheme offers the inherent advantages of eliminating possible failure points (circuit breakers), occupying less overall floor space (no transformers required), and increasing efficiency through increased power delivery. Due to these significant increases in energy efficiencies, the 230/400 volt power distribution approach has gained traction in North American, high-density data centers.

FEATURES

- Specifically for systems incorporating 380VAC, 400VAC and 415VAC four-wire installations at 50 or 60 Hz.
- Can be paralleled with up to eight units for N+1 redundancy.
- User-friendly LCD touch panel for fast access to system status, monitoring and control.
- Application for domestic data centers reduces costs, weight, & floor space while increasing efficiency.

DRAWING



Reliable Backup Power

SPECIFICATIONS

AC INPUT

Configuration	3 phase, 3 wire
Voltage	380V, 400V, 415V
Frequency	50 / 60 Hz (+/-10%)
Power Factor	>.99 Lagging
Input kVA	474 kVA Max (500 kVA chg)
Walk-in Function	1 –30 Seconds (in 1 second increments)

AC OUTPUT

Configuration	3 phase, 4 wire
Voltage	380V, 400V, 415V
Voltage Regulation	±1% (0 – 100% balanced load); ±2% (0 – 100% unbalanced load)
Voltage Unbalance	2% maximum at 100% unbalanced load
THD (VOUT)	< 2% THD at 100% linear load; < 5% THD at 100% nonlinear load

STATIC BYPASS INPUT

Input Current (Max)	720 A (760 A) @ 380V, 684A (722A) @ 400V, 659A (696A) @ 415V
Input Current Limiter	~105% Full Load Input Current
Reflected Current THDi	5% max 100% load (no input filter required)
Configuration	3 phase, 4 wire
Voltage	380V, 400V, 415V
Frequency	50/60 Hz ±5%
Bypass Overload	500% for 1 cycle

BATTERY

Nominal Voltage	480 Vdc
Minimum Voltage	400 Vdc
Float Voltage	Up to 545 Vdc
Max DC Charging Current	125 A (MAX) Charging current based on load capacity.
Max. Discharge Current	1172 A
Batt. Capacity Required at Full Load Output	469 kWb
Number of Cells	240

ENVIRONMENTAL

Protection Class	IEC - IP20
Cooling	Forced Air
Operating Temperature	32° F to 104° F (0° C to 40° C) Recommended : 68° F to 86° F (20° C to 30° C)
Relative Humidity	30% – 90% Non-Condensing
Altitude	0 to 3281 feet (1000 m) No Derating at 104° F (40° C)
Clearance Required	Top: 23.6 in. (600 mm) Front: 42.3 in. (1075 mm) Rear: 0 in. (0 mm) Sides: 0 in. (0 mm) if sidecars used, 1 in. (25 mm) if no sidecars used.
Enclosure	IEC 62040
Audible Noise	71bB @ 1m 50Hz 73 dB @ 1 m 60Hz
Listings/Standards	UL1778 4th, EN 62040-1:2008
Emergency Power Off	Included

Crest Factor	2.3
Efficiency (AC/AC)	up to 96%

Transient Response	±2% maximum at 100% load step ±1% maximum at loss/return of AC power(more than DC nominal voltage) ±5% maximum at load transfer to/from static bypass
Transient Recovery Time	Less than 20ms

Frequency	50 / 60 Hz (Note: no frequency converter)
Frequency Sync. Range	±1% to ± 5% (selectable in 1% increments)

Frequency Slew Rate	1 Hz/s to 5 Hz/s (selectable in 1 Hz/s increments)
Frequency Regulation	±0.01% in free running mode

Phase Displacement	±1° @ 100% Balanced Load, ±3° @ 100% Unbalanced Load
Output Current	759 A @ 380V / 722A @ 400V / 696A @ 415V

Power Factor	0.9
Overload Capacity	125% for 10 minutes; 150% for 60 seconds

Withstand Rating	100,000 A (with optional fuses)
Dry Contacts Included	Yes, for Input and Output Signals

MONITORING

RS232 Port	Netcom2 & ModBus RTU are optional
Display	LCD Touch Panel for Local Monitoring, Operation, Control and TCP/IP

GENERAL

EMC	EN 62040-2:2006
Parallel Capability	8 units

Cable Entry	Bottom/Top
Weight	3858 lb. (1750 kg)

Dimensions (WxDxH)	≤ 70.9 x 32.8 x 78.7 in (1800 x 832 x 2000mm)
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Contact Information

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for a greener tomorrow

Like all other Mitsubishi UPS systems, the 9950A is an online double-conversion system and features Mitsubishi's world-renowned Insulated Gate Bipolar Transistor (IGBT) technology for enhanced UPS performance and reliability. Offering efficiencies up to 96%, the 500kVA UPS supplies clean, continuous power to data centers and other mission critical equipment while reducing a facility's operating costs and carbon footprint.



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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.

The 9950A UPS is fully supported by Mitsubishi Electric Power Products' 24/7 factory service department, including customer training, application expertise and a two-year parts and labor warranty.