UNINTERRUPTED Peace of Mind







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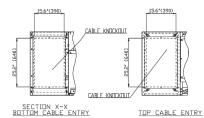
UNINTERRUPTIBLE POWER SUPPLIES

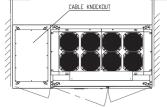
NEW UPS DESIGN IDEAL FOR HIGH-DENSITY DATA CENTERS

The newly introduced 9950A UPS available from Mitsubishi Electric 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 significant increases in energy efficiencies, the 230/400 volt power distribution apporach has gained traction in high-density data centers.

Specifically for systems incorporating 380VAC, 400VAC and 415VAC four-wire installations at 50 or 60 Hz.

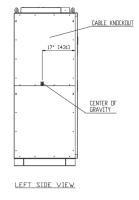
- Can be paralleled with up to eight units for N+1 redundancy.
- User-friendly LCD touch panel for fast access to system status, monitoring and control.
- Application for domestic data centers reduces costs, weight, & floor space while increasing efficiency.

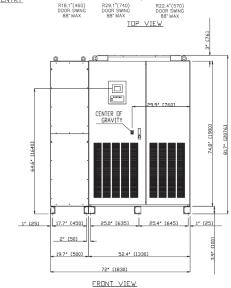


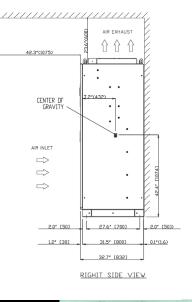


NOTES

LUMENTATIVE AND SHOWN IN INCIDE (MILLIME LERS). 2.SIDE SPACE '1"(25) 'IS NOT REQUIRED WHEN SIDECARS ARE USED. 3.CABINET SHOULD BE MAINTAINED UPRIGHT WITHIN ±15' DURING HANDLING 4.WEIGHT: NEARLY 3,858LBS (1,750kg)







1.662 ar.1 NEGER ST Nº FF.0 -8. 230 1.12% -C Cal 3.23 % -F.V 2.14 % 2.18% -8-1.16%

Reliable Backup Power

AC INPUT	Configuration	3 phase, 3 wire	AC
H	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)	
	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)	
STATIC BYPASS	Configuration	3 phase, 4 wire	
INPUT	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)	MON
	Relative Humidity	30% – 90% Non-Condensing	WOR
	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	

AC OUTPUT	Configuration	3 phase, 4 wire
	Voltage	380V, 400V, 415V
	Voltage Regulation	$\pm1\%$ (0 – 100% balanced load); $\pm2\%$ (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
	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	$\pm 1\%$ to $\pm 5\%$ (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)
ONITORING	Dry Contacts Included	Yes, for Input and Output Signals
	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)

SPECIFICATIONS



Contact Information

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Since 1964, Mitsubishi Electric 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 lifetime of your UPS.

The 9950A UPS is fully supported by Mitsubishi Electric Asia Pte Ltd, including customer training and application expertise.