

# Uninterruptible Power Supply M9950

120, 160, 200, 300, 400, 500, 600kVA

The M9950 offers a true on-line double conversion, high performance, high density and high efficiency experience to users. Designed with industry-leading power electronics and controls technology and incorporating innovative advanced multilevel conversion technology to create a 3-level output voltage which reduces switching loss.



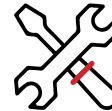
### Maximum Performance & Reliability

Our patented technology provides a true on-line double conversion UPS system that offers high efficiencies regardless of load type. Efficiency ratings as high as >96%, even with loads as low as 40%.



### Low Conduction Losses

Proprietary Power Module and Carrier Store Trend Bipolar Transistor (CSTBT) produces low conduction losses. The innovative CSTBT also provides lower on-state voltage and a better relationship between on-state voltage and saturation voltage. Advanced Multilevel Conversion Technology reduces switching loss.



### Ease of Maintenance

Designed with both reliability and maintenance in mind, the various system components minimise and ease system maintenance. Front access allows for ease of access and reduced mean time to repair (MTTR). Components such as high quality industrial grade fans provide longer life and enhanced dependability.

## Elevate your Performance

- Efficiency up to 96%, even at low loads
- Compact design, small footprint
- Bidirectional power converters
- Advanced IGBT 3 level topology
- High performance full digital control
- Multiple cable entry points (top/bottom)
- Parallel up to 8 units (up to 4.8MVA of capacity)
- 150% Overload capacity for 1 minute
- 125% Overload capacity for 10 minutes
- VRLA, Flooded, Ni-Cad and LiB compatible

# SPECIFICATIONS

	M9950						
	3 phase UPS						
Rated Output kVA	120	160	200	300	400	500	600
Rated Output kW	108	144	180	270	360	450	540
<b>AC INPUT</b>							
Configuration	3 phase, 3wire						
Voltage	380V, 400V, 415V (+15% to -20%)						
Frequency	50 / 60Hz ±10%						
Power Factor	>.99 Lagging						
Reflected Current THDi	5% max 100% load						
<b>BYPASS INPUT</b>							
Configuration	3 phase, 4 wire						
Voltage	380V, 400V, 415V ±10%						
Frequency	50/60Hz ±5%						
Bypass Overload	500% for 1 cycle						
<b>BATTERY</b>							
Nominal Voltage	480Vdc (Standard setting)						
Float Voltage	545Vdc (Standard setting)						
Voltage Range	400Vdc~600Vdc						
Number of Cells	240						
<b>AC OUTPUT</b>							
Voltage	380V, 400V, 415V						
Frequency	50/60Hz						
Configuration	3 phase, 4 wire						
Power Factor	0.9						
Voltage Regulation	±1% (0-100% balanced load)						
Voltage Adj. Range	±5.0%						
Voltage Unbalance	2% maximum at 100% unbalanced load						
THD (Vout)	<2% THD at 100% linear load; <5% THD at 100% nonlinear load						
Transient Response	±2% maximum at 100% load step, ±1% maximum at loss/return of AC power						
	±5% maximum at load transfer to/from static bypass						
Phase Displacement	±1° @ 100% Balanced Load, ±3° @ 100% Unbalanced Load						
Overload Capacity	125% for 10minutes; 150% for 1minute						
<b>ENVIRONMENTAL</b>							
Operating Temperature	0~40°C						
Efficiency (AC/AC)	96%						
Parallel Capability	8 units						
<b>GENERAL</b>							
Safety	IEC-62040-1						
EMC	IEC-62040-2						
Weight	550	610	990	1100	1590	1650	
Dimensions (WxDxH) (mm)	700 x 832 x 2080			1400 x 832 x 2080		1800 x 832 x 2080	
Cable Entry	Bottom			Bottom / Top			



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