

Uninterruptible Power Supply 9900D (1050,1400,1750kVA)

The 9900D UPS is high-density, modular power, redefined. It's a large-capacity UPS with a relatively small footprint which delivers superior reliability to satisfy the relentless demands of cloud and colocation data centres.

The system is responsive, shielding from power transients with advanced control and power module redundancy.



Equipment Reliability

While competitors simply estimate their reliability, Mitsubishi Electric's documented base of the 9900D has a sustained load carrying capacity of 99.9995% throughout operational history.

High Efficiency

The 9900D is optimized for typical load levels of 25% to 75%, delivering high efficiencies across all hyper-scale load level via online double conversion technology. The 9900D UPS achieves up to 97.2% efficiency.

Hyperscale power, Small Footprint

Originally designed as a true hyper-scale UPS by prioritizing power density. 9900D possess a small footprint to generate more white space.

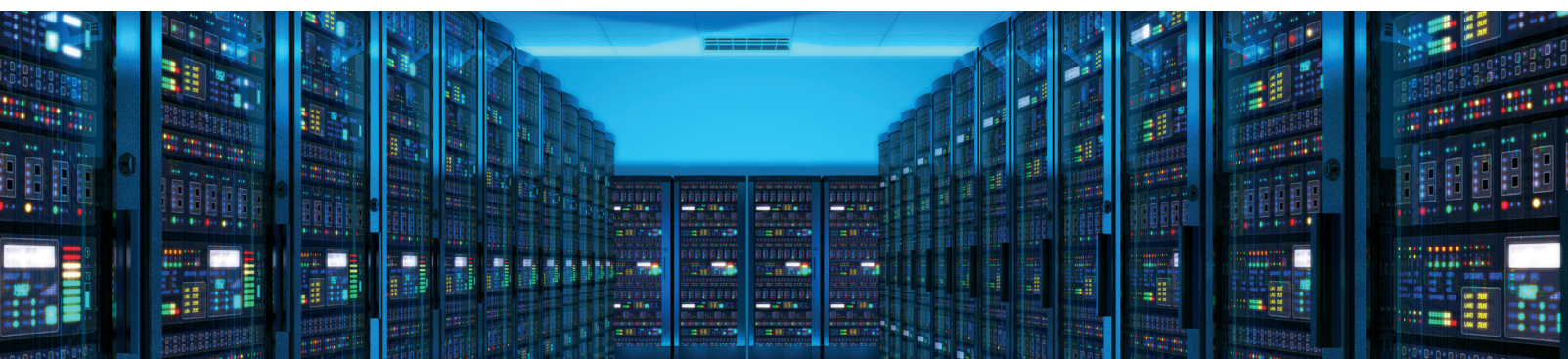
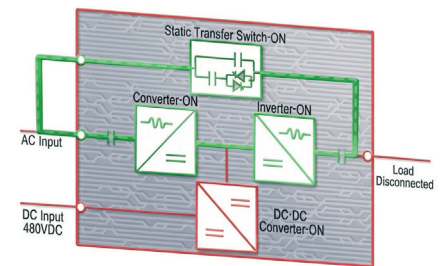
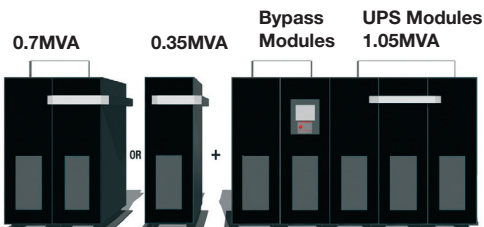
Expandable and Flexible

The 9900D's modular design enables supplemental modules to be added over time to meet increasing capacity needs, making hyperscale expansion faster, easier and more economical.

Self-load Test Capability

The 9900D features a self-load test mode of operation, providing the ability to run burn-in tests on the UPS without needing an external load bank connected.

This removes the need to rent a load bank and cables, and reduces set up, labour and utility power usage.



Specifications

Model	9900D		
Rated Output (kVA)	1050	1400	1750
Rated Output (kW)	1050	1400	1750
Design Topology	Online double conversion (VFI-SS-III), Transformerless Design		
Regulatory	Safety : IEC 62040 -1, EMC : IEC 62040 -2, Performance : IEC 62040 -3		
Power Expansion	Up to 6 units with advanced current minor loop control for reliable parallel operation		
Surge Protection	Built-in modular type II surge protection		
Emergency Power Off (EPO)	Available in front panel		
Cable Entry	Top & Bottom		
Protection Class	IEC-IP-20		
Input Characteristics			
Converter Technology	Robust CSTBT based multi-level Technology, High Efficiency & Long life		
Nominal Voltage	3 Phase 380/400/415 V + PE		
Voltage Tolerance	+15%, -20%		
Frequency	50 Hz \pm 10%		
Power Factor	> 0.98 @100% load		
Current Distortion (THDi) @ rated load	< 5% @100% load		
System Power Walk in	30 secs programmable and up to 3600 secs programmable converter start delay		
Output Characteristics			
Inverter Technology	Robust CSTBT based multi-level Technology, High Efficiency & Long Life		
Nominal Voltage	3 Phase - 3 Wire or 4 Wire 380/400/415 V (selectable)		
Frequency	50 Hz		
Frequency Sync Range	\pm 1% to \pm 5% (Selectable in 1% increment)		
Frequency Slew rate	1 Hz/s to 5 Hz/sec (Selectable in 1 Hz/sec increment)		
Phase displacement	\pm 1 Deg @ 100% balanced load, \pm 3 Deg @ 100% unbalanced load		
Power Factor	Unity		
Voltage Regulation Static Load	< 1%		
Dynamic Response (100% Step Load)	< 2%, recovery within 20ms		
Voltage Distortion (THDv) @ rated load	< 2% (Linear load), < 5% (Non-linear load)		
Overload	125% for 10 Minutes, 150% for 1 Minute		
Bypass Characteristics			
Nominal Voltage	3 Phase - 3 Wire or 4 Wire 380/400/415 V \pm 10%		
Nominal Frequency	50Hz		
Short Circuit withstand capacity	500% for 20ms		
Battery			
Nominal Voltage	480 VDC (Flexible)		
Max DC voltage protection	Up to 600V DC		
Battery Type	VRLA, Flooded, Ni-Cd, LIB		
Efficiency			
Double Conversion Mode	Up to 97.2%		
Communication			
Intelligent monitoring (option)	Modbus/TCP, Modbus/RS485, RS 232, SNMP		
UPS Display	Graphical Touchscreen with LCD Display		
Alarm and Status Information	Through LCD Display, user programmable input and output dry contacts		
Environmental			
Operating Temperature	0 to 40 °C		
Relative Humidity	30 to 90% no condensation		
Operating altitude measurement	1000m above msl		
Dimension			
Dimension (W x D x H) ¹	3400 x 900 x 2086	4300 x 900 x 2086	4900 x 900 x 2086
Weight (kg)	3400	4520	5330

Specifications are subject to change without prior notice as part of continuous development.

1-Dimension tolerance +/-10mm

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