

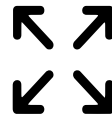


Uninterruptible Power Supply

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.



Unparalleled Reliability

Designed to deliver the highest reliability among backup power equipment suppliers, our robust technology can deliver continuous power in the most demanding environments. Our 9900D has a sustained load carrying capacity of 99.9995%* throughout operational history.

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. You can optimise investment by only paying for the power you need, while retaining the option to expand the UPS capacity as your business grows.

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.

*data sourced from actual operational history provided by Mitsubishi Electric Power Products Inc.

Elevate your Performance

- Compact design, small footprint
- Up to 97% efficiency, even at low loads
- Modular design allows for N or N+1 reliability
- Expandable in 350kVA increments
- 150% Overload capacity for 1 minute
- 125% Overload capacity for 10 minutes
- Easy to use HMI
- VRLA, flooded, Ni-Cad and LiB compatible
- Advanced IGBT 3 level topology
- Multiple cable entry points

SPECIFICATIONS

ITEM	9900D (3P4W)		
Rated Output kVA / kW	1050 kVA / 1050 kW	1400 kVA / 1400 kW	1750 kVA / 1750 kW
AC INPUT			
Configuration	3 phase, 3 wire		
Voltage	400V/415V (+15% to -20%)		
Frequency	50/60 Hz (+/-10%)		
Power Factor	>.98 Lagging		
Input kVA / (Max Input kVA)	1114 kVA / (1176 kVA)	1485 kVA / (1568 kVA)	1856 kVA / (1960 kVA)
Walk-in Function	1 – 30 Seconds (in 1 second increments)		
Start-up Delay	1 – 3600 seconds (selectable in 1 second increments)		
Input Current@400V / (Max Input Current)	1608A / (1697A)	2143A / (2263A)	2679A / (2829A)
Input Current@415V / (Max Input Current)	1550A / (1636A)	2066A / (2181A)	2583A / (2727A)
Input Current THDi	5% max @100% load, 10% max @50% load (no input filter required)		
BYPASS INPUT			
Configuration	3 phase, 4 wire		
Voltage	400V/415V +/-10%		
Frequency	50/60 Hz +/-5%		
Bypass Overload	500% for 1 cycle		
BATTERY			
Type	VRLA, Flooded Lead Acid, Nickel Cadmium or LiB		
Charging Voltage	400 ~ 557Vdc		
Max DC Charging Current *1	210A	280A	350A
Max. Discharge Current (at EOD) *2	2729A	3638A	4548A
Batt. Capacity Required at Full Load Output	1091 kWb	1455 kWb	1819 kWb
AC OUTPUT			
Configuration	3 phase, 4 wire		
Voltage	400V/415V		
Voltage Regulation	+/-1% (0 – 100% balanced load); +/-2% (0 – 100% unbalanced load)		
Voltage Adj. Range	+/- 3.0%		
Voltage Unbalance	+/-2% maximum at 100% unbalanced load		
THD (VOUT)	< 2% THD at linear load; < 5% THD at nonlinear load		
Crest Factor	2.3		
Maximum Efficiency (AC/AC)	96.2%	96.2%	96.2%
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		
Transient Recovery Time	Less than 20ms		
Frequency	50/60 Hz		
Frequency Synch. 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	+/-1deg @ 100% Balanced Load, +/-3deg @ 100% Unbalanced Load		
Output Current@400V	1516A	2021A	2526A
Output Current@415V	1461A	1948A	2435A
Power Factor	1.00		
Power Factor Range	0.8 lagging to 0.9 leading		
Overload Capacity	125% for 10 minutes; 150% for 60 second		
ENVIRONMENTAL			
Protection Class	IEC - IP20, NEMA1		
Cooling	Forced Air		
Operating Temperature	0 deg C to 40 deg C		
Non-operating and storage ambient	-20 degC to 70 degC		
Relative Humidity	5% – 95% Non Condensing		
Altitude	0 – 1980m No Derating at 40 deg C		
Location	Indoor (free from corrosive gases and dust)		
Clearance Required	Top: 600 mm Front: 1075 mm Rear: 0 mm Sides: 0 mm if sidecars used, 25 mm if no sidecars used.		
Audible Noise @1m in open air	71 dBA	73 dBA	73 dBA
Emergency Power Off	Included		
MONITORING			
Dry Contacts Included	Yes, for Input and Output Signals		
Intelligent Monitoring (Option)	Modbus / TCP Modbus / RS485 or RS232 / SNMP		
Display	LCD Touch Panel for Local Monitoring, Operation, and Control		
SYSTEM			
Backfeed protection	YES		
Batch UPS module battery bank	YES		
Each UPS module battery bank	YES		
OPTIONAL			
Parallel Capability	6 units		
Other source synchronization	YES		
Power Conditioner operation	YES		
ECO-mode	YES (Efficiency >99%) (SMS Option)		
Smart Drive mode	YES (SMS Option)		
GENERAL			
Safety / EMC / Performance	IEC 62040-1 / IEC 62040-2 / IEC 62040-3		
Cable Entry	Top, Bottom, Side	Top, Bottom	
Weight (kg)	3,400	4,500	5,300
Dimensions (WxDxH) (mm)	3,400 x 900 x 2,086	4,300 x 900 x 2,086	4,900 x 900 x 2,086



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