

Power

for your cable networks and communication systems...

Solutions

Industry Grade UPS

MS Series Uninterruptible Power Supply



- Sine-wave Pulse Width Modulation (SPWM) technology
- Dual conversion online IGBT inverter with static bypass topology
- Multi-microprocessor control
- Sine wave output, zero transfer time
- Smart LCD + LED display
- Protection against all power problems
- N+1 Redundant parallel operation
- User-friendly bypass protection
- Self-test on startup
- Generator compatibility
- On-battery startup (cold-startup)
- RS-232 communication interface + Intelligent Slot
- Optional SNMP Adapter and parallel connection kit



Options (L to R): MPO Multi-purpose Outlet,
PowerNET SNMP Adapter.

MS Series Uninterruptible Power Supply

Nominal Specifications (Tower, external batteries)

Model	MS-1KL	MS-2KL	MS-3KL	MS-4KL	MS-6KL
Rated Power	1000VA/800W	2000VA/1600W	3000VA/2400W	6000VA/4800W	10000VA/8000W
Input					
Voltage	100VAC, 120VAC, 220VAC or 240VAC				
Voltage range	±25%				
Frequency	50Hz or 60Hz ±5%				
Output					
Voltage	100VAC, 120VAC, 220VAC or 240VAC				
Voltage regulation	±2% at battery mode				
Frequency	50Hz or 60Hz (±0.5% at battery mode)				
Waveform	Sine wave				
Power factor	0.8				
Harmonic distortion	T.H.D. <3% (linear load) T.H.D. <5% (non-linear load)				
Load crest ratio	3:1				
Overload capacity	125% - 150%, bypass in 1 minute; >150%, bypass in 200ms				
Transfer characteristic	0ms				
Battery					
Type	Sealed maintenance free (SMF) VRLA battery				
Voltage	48VDC			192VDC	
Charging voltage	55VDC			218VDC	
Backup time	Depends on capacity of battery bank(s)				
Environmental					
Operating temperature	0 to 40°C				
Relative humidity	0 to 90% non-condensing				
Noise	<58dB				
Mechanical					
Communication interface	RS-232 and Intelligent Slot				
LCD display	Input / output voltage, input / output frequency, battery voltage, load capacity and temperature				
LED display	Operation mode, line status, battery status and inverter status.				

Optional Features



Multi-purpose Outlet (MPO)

- > 4 independent MCB-controlled sockets
- > Built of durable powder coated material
- > Easy mounting on shelf of GM enclosure
- > Other types of sockets applicable



PowerNET™ SNMP Adapter

- > Support for HTTP, SNMP and DHCP protocols
- > Support for Telnet and Hyper Terminal
- > Support for automatic startup and show-down
- > Operating status monitoring and display
- > Administration through LAN
- > Fully programmable remote control
- > Multiple-client administration
- > E-mail notification on emergency events
- > Automatic recording history log data

MS Series Uninterruptible Power Supply

Nominal Specifications (Tower, external batteries)

Model	MS-8KL	MS-10KL	MS-12KL	MS-15KL	MS-20KL
Rated Power	8000VA/6400W	10000VA/8000W	12000VA/9600W	15000VA/12000W	20000VA/16000W
Input					
Voltage	110VAC, 120VAC, 220VAC or 240VDC				
Voltage range	±25%				
Frequency	50Hz or 60Hz ±5%				
Output					
Voltage	110VAC, 120VAC, 220VAC or 240VDC				
Voltage regulation	±2% at battery mode				
Frequency	50Hz or 60Hz (±0.5% at battery mode)				
Waveform	Sine wave				
Power factor	0.8				
Harmonic distortion	< 3% of T.H.D. with linear load <5% of T.H.D. with non-linear load				
Load crest ratio	3:1				
Overload capacity	125% - 150%, bypass in 1 minute; >150%, bypass in 200ms				
Transfer characteristic	0ms				
Battery					
Type	Sealed maintenance free (SMF) VRLA battery				
Voltage	192VDC				
Charging voltage	218VDC				
Backup time	Depends on capacity of battery bank(s)				
Environmental					
Operating temperature	0 to 40°C				
Relative humidity	0 to 90% non-condensing				
Noise	<58dB				
Mechanical					
Communication interface	RS-232 and Intelligent Slot				
LCD display	Input / output voltage, input / output frequency, battery voltage, load capacity and temperature				
LED display	Operation mode, line status, battery status and inverter status.				

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