

# Power

for your cable networks and communication systems...

# Solutions

3-phase IN / 3-phase OUT  
Industry Grade UPS

## MS33 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
- Three-phase N+1 Redundant parallel operation
- User-friendly bypass protection
- Self-test on startup
- Generator compatibility
- On-battery startup (cold-startup)
- Advanced battery management
- Adjustable charging current
- RS-232 communication interface + Intelligent Slot
- Optional SNMP Adapter and parallel connection kit



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

# MS33 Series Uninterruptible Power Supply

## Nominal Specifications (10KVA – 50KVA)

Model	MS33-10KL	MS33-20KL	MS33-30KL	MS33-40KL	MS33-50KL
<b>Rated Power</b>	10000VA (8000W)	20000VA (16000W)	30000VA (24000W)	40000VA (32000W)	50000VA (40000W)
<b>Input</b>					
Voltage	120/208VAC or 220/380VAC (3-phase+N+G)				
Voltage range	±25%				
Frequency	50Hz or 60Hz ±5%				
<b>Output</b>					
Voltage	120/208VAC or 220/380VAC (3-phase+N+G)				
Voltage regulation	±2%				
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				
<b>Battery</b>					
Type	Sealed maintenance free (SMF) VRLA battery				
Voltage	360VDC				
Charging voltage	405VDC				
Charging current	3A – 30A, adjustable				
Discharging current	25A	51A	76A	101A	126A
<b>Environmental</b>					
Operating temperature	0 to 40°C				
Relative humidity	0 to 90% non-condensing				
<b>Mechanical</b>					
Communication interface	RS-232 and Intelligent Slot				
LCD& LED display	Input / output voltage, input / output frequency, battery voltage, load capacity and temperature Operation mode, line status, battery status and inverter status.				
Net weight	227KGS	315KGS	377KGS	475KGS	505KGS
Dimensions (mm)	600x700x1350			700x853x1600	

## 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

# MS33 Series Uninterruptible Power Supply

## Nominal Specifications (60KVA – 160KVA)

Model	MS33-60KL	MS33-80KL	MS33-100KL	MS33-120KL	MS33-160KL
<b>Rated Power</b>	60000VA (4800W)	80000VA (64000W)	100000VA (80000W)	120000VA (96000W)	160000VA (108000W)
<b>Input</b>					
Voltage	120/208VAC or 220/380VAC (3-phase+N+G)				
Voltage range	±25%				
Frequency	50Hz or 60Hz ±5%				
<b>Output</b>					
Voltage	120/208VAC or 220/380VAC (3-phase+N+G)				
Voltage regulation	±2%				
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				
<b>Battery</b>					
Type	Sealed maintenance free (SMF) VRLA battery				
Voltage	360VDC				
Charging voltage	405VDC				
Charging current	3A – 30A, adjustable				
Discharging current	152A	203A	253A	305A	405A
<b>Environmental</b>					
Operating temperature	0 to 40°C				
Relative humidity	0 to 90% non-condensing				
<b>Mechanical</b>					
Communication interface	RS-232 and Intelligent Slot				
LCD& LED display	Input / output voltage, input / output frequency, battery voltage, load capacity and temperature Operation mode, line status, battery status and inverter status.				
Net weight	547KGS	950KGS	1000KGS	1100KGS	1350KGS
Dimensions (mm)	700x853x1600	1070x900x1700			1500x1250x1800

## 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
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- > Automatic recording history log data

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