

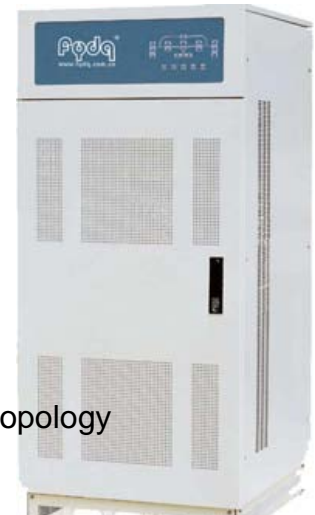
Power

for your cable networks and communication systems...

Solutions

Three-phase
Industry Grade UPS

MS31 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)
- 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.

MS31 Series Uninterruptible Power Supply

Nominal Specifications

Model	MS31-10KL	MS31-15KL	MS31-20KL	MS31-30KL	MS31-40KL	MS31-60KL	
Rated Power	10000VA (8000W)	15000VA (12000W)	20000VA (16000W)	30000VA (24000W)	40000VA (32000W)	60000VA (48000W)	
Input							
Voltage	120/208VAC or 220/380VAC (3-phase+N+G)						
Voltage range	±25%						
Frequency	50Hz or 60Hz ±5%						
Output							
Voltage	110VAC, 120VAC, 220VAC or 240VAC						
Voltage regulation	±2%						
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	360VDC						
Charging voltage	405VDC						
Charging current	3A – 30A, adjustable						
Discharging current	25A	38A	51A	76A	101A	152A	
Environmental							
Operating temperature	0 to 40°C						
Relative humidity	0 to 90% non-condensing						
Mechanical							
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	145KGS	200KGS	230KGS	270KGS	300KGS	439KGS	
Dimensions (mm)	550x450x1080	500x680x1200				600x700x1350	

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

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