

WAVECREST™

POWER QUALITY SOLUTIONS

Protect electrical equipment from
poor power quality caused by internal
and external forces.

The logo consists of the letters 'M', 'I', and 'C' in a bold, serif font. The letter 'C' is stylized with horizontal lines extending from its right side, suggesting a circuit or electrical component.

Patent Pending

Power Quality Protection

The Wavecrest Power Protector protects electrical equipment from volatile power conditions and disturbances. This unit is used best to pinpoint specific equipment from power problems such as:

- Harmonics
- RFI
- Surge
- Over/Under Voltage
- Transients
- Brownouts
- Sag
- Notching
- Noise
- Flicker
- Poor power factor



Patent Pending

Sensitive Electronics are Everywhere

Protecting electronic equipment is recommended by electric utilities because of unplanned disturbances. Wavecrest's patent pending design is the first to cover all harmful and annoyance power disturbances, protecting all equipment on a dedicated circuit. That includes, but is not limited to:

- LED lighting
- Heat pumps
- Hot water circulators
- Phone systems
- Electrical outlets
- Door operators
- And more...

One-of-a-Kind Overvoltage Protection

No other product monitors the voltage to ensure correct voltage is supplied. If a mishap of over or undervoltage occurs, the Wavecrest opens the circuit, protecting all equipment from failing due to the voltage condition. This is a common problem with power coming back online after an outage.

Innovation in Cost and Function

Wavecrest's innovation is in its capabilities as well as its low cost. It is now economical to have this level of protection for all types of power quality problems.

Display Diagnostics

- Voltage and Amperage Readout Screen
- Operational Indicator LEDs

Ratings

Continuous Current	30-Amps
Spike Current	12,000 Amps, 10-Rep
Voltage	120v, 208v, 240v, 277v, 480Y (3-units)
Hi Volt Disconnect	Above 310-VAC
Volt Max	500-VAC
Spike Max	120,000 Amps, 1-Time
Low Volt Disconnect	20% Below Rated Voltage
Reactive Current Compensation	2-Amps
Power Consumption	3 Watts
EMI	-3db @ 1-Khz
EMI	-80db @ 10-Khz
Passive Harmonic Filter	10%
Case Material	1.3mm Steel
Diagnostic Lights	Green = Load On, Yellow = Low Voltage, Red = High Voltage

Model Number	Dimension (inches)	Voltage	Amperage
MIC-WC-01-120	7.3 x 3.3 x 7.15	120v	30a
MIC-WC-01-208	7.3 x 3.3 x 7.15	208v	30a
MIC-WC-01-240	7.3 x 3.3 x 7.15	240v	30a
MIC-WC-01-277	7.3 x 3.3 x 7.15	277v	30a
MIC-WC-01-480	7.3 x 3.3 x 7.15	480Y, 3-phase plus neutral	30a

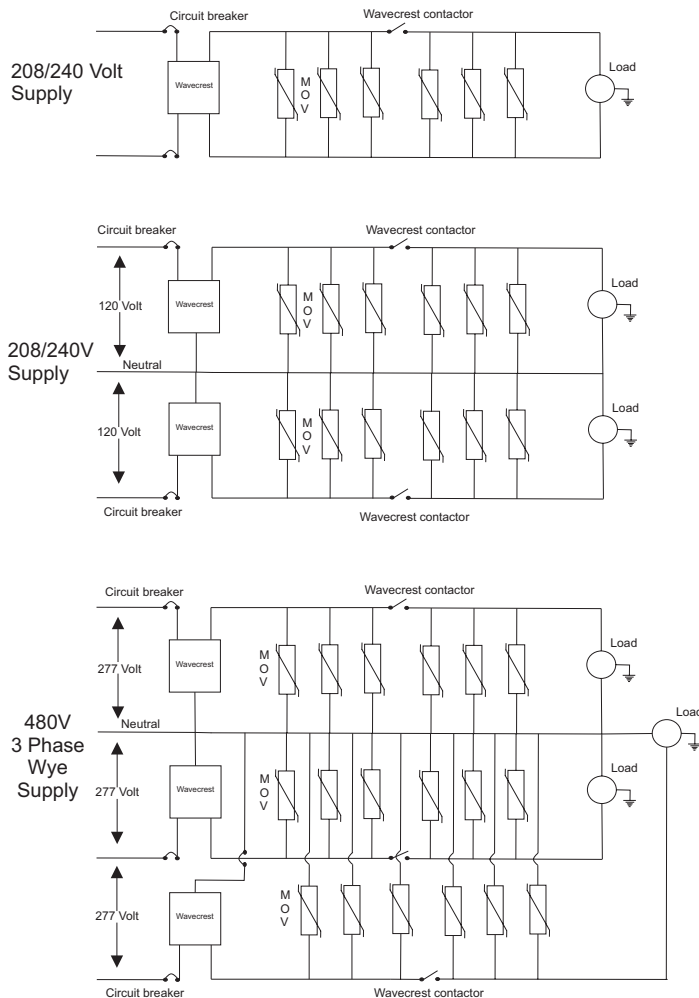
Surge Protection

Wavecrest: Surge Protection Device and MORE

Wavecrest provides full panel surge protection in addition to the critical equipment branch circuit power protection. Using a device that offers only surge protection does not provide protection against overvoltage, harmonics, EMI/RFI noise, and undervoltage.

Full Panel Surge Protection

One Wavecrest unit installed on a 240v branch circuit provides 240kA full panel surge protection. For full panel surge protection on 120v branch circuits, (2) Wavecrests, one on each incoming line, provides 240kA protection. For 480v Wye 3 phase, (3) Wavecrests, one per phase, provides 360kA protection. Refer to the wiring diagram below.




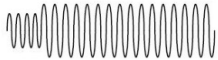
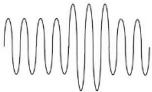
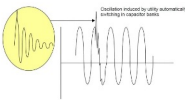



Surge Protection Specs

- Six 40mm diameter MOVs
- 208/240v surge rating of 240kA (one unit)
- 120v surge rating of 240kA (two units)
- 480v Wye surge rating of 360kA (one unit per phase)
- Overvoltage disconnect and automatic reset
- Lightning strike and frequent surging protection
- Every additional unit added to the panel increases surge protection. (Example: adding one 240v Wavecrest to a panel doubles rating to 480kA)

Power Quality Events the Wavecrest Protects Against

The following power disturbances can affect any and all electronics in a building. Electric utilities recommend protecting against these occurrences.

Power Disturbance	Consequences
Sag/Under Voltage 	<ul style="list-style-type: none"> Flickering LED lights Equipment malfunction, decreased efficiency, shortened lifespan Strain on electrical connections, causing overheating and fire risk
Harmonics 	<ul style="list-style-type: none"> Less efficient electrical systems Interference with communication systems, control circuits, sensitive electrical equipment Nuisance tripping Poor power factor
EMI/RFI 	<ul style="list-style-type: none"> Flicker Poor operation and malfunction of electronics System stoppage Data loss
Overvoltage 	<p>Highly destructive to all equipment connected to the circuit</p>
Swell 	<ul style="list-style-type: none"> Reduced life of electrical equipment Device error or crashing Nuisance tripping
Transients 	<ul style="list-style-type: none"> Impulsive – loss of data, electronic component damage, system stoppages Oscillatory – VFD, DC link overvoltage tripping, reduced equipment life, timing errors on electronic circuits
Interruptions/ Brownouts 	<ul style="list-style-type: none"> Loss of data, loss of production, system stoppages, damage shutdown VFD, compressor, refrigeration system failure <p>*Does not prevent brownouts like a UPS, only protects against the disturbances associated with them*</p>