

WAVECREST

POWER QUALITY SOLUTIONS

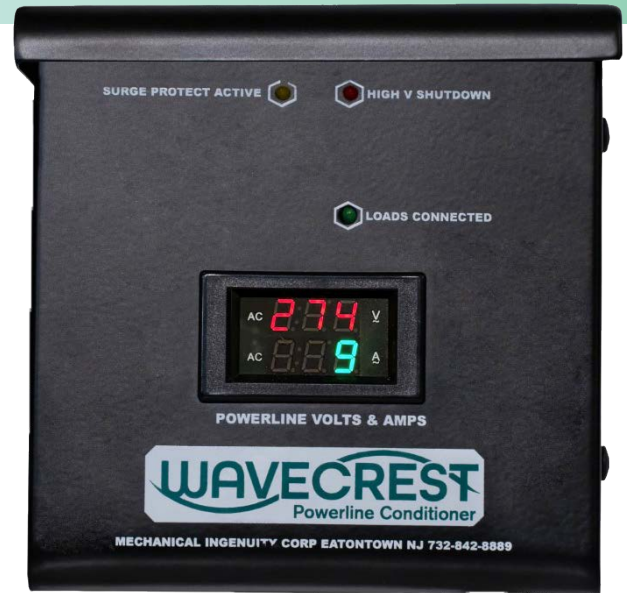
Protect electrical equipment from
poor power quality caused by internal
and external forces.



Wavecrest Power Conditioner

The Wavecrest Power Conditioner 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



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
- Computers
- 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.

Ratings

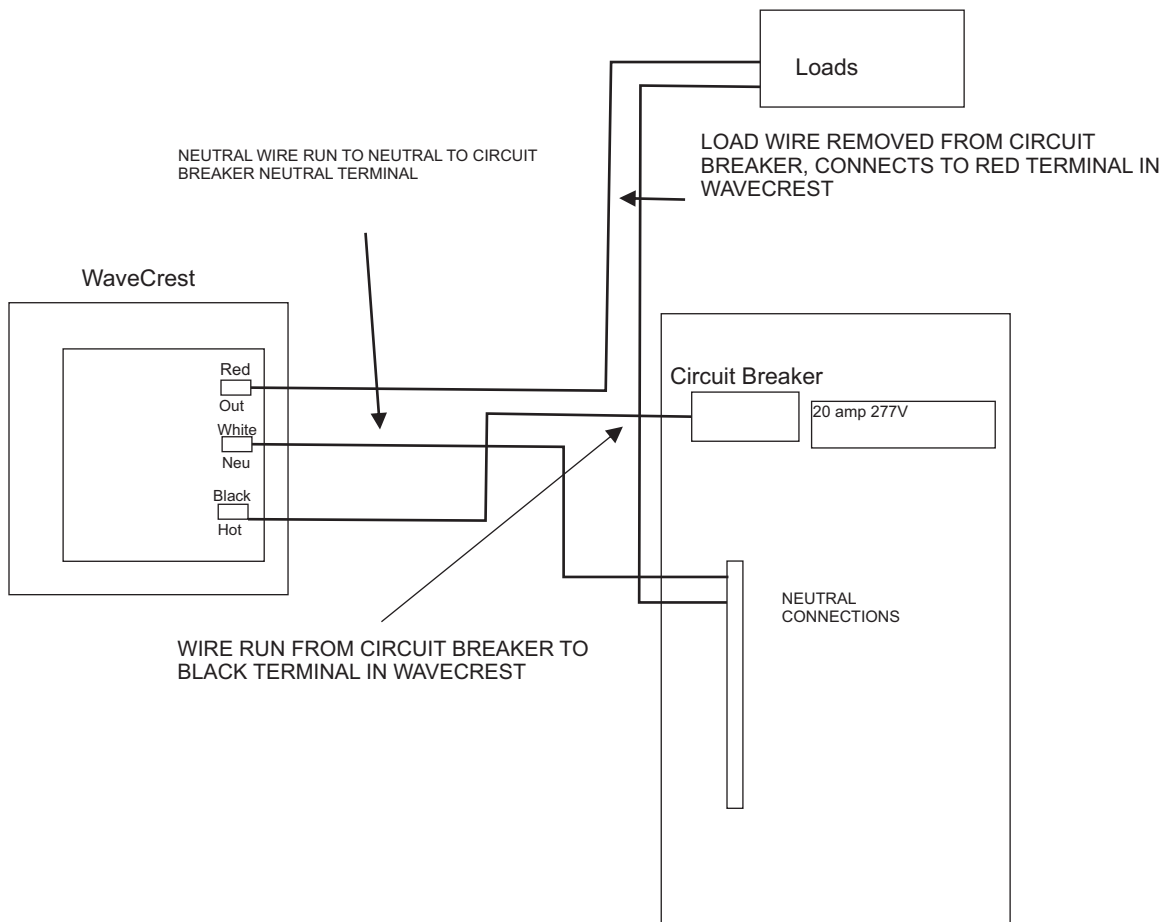
Continuous Current	20-Amps
Spike Current	12,000 Amps, 10-Rep
Voltage	277 VAC
Hi Volt Disconnect	Above 310-VAC
Volt Max	500-VAC
Spike Max	120,000 Amps, 1-Time
Low Volt Disconnect	Below 200-VAC
Volt Min	240-VAC
Reactive Current Compensation	2-Amps
Power Consumption	3 Watts
EMI	-3db @ 1-Khz
EMI	-80db @ 10-Khz
Case Material	1.3mm Steel
Diagnostic Lights	Green = Load On, Yellow = Low Voltage, Red = High Voltage

Wavecrest Wiring Instructions

WARNING: Do not disconnect or loosen any White neutral wires inside circuit breaker panel

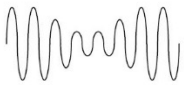


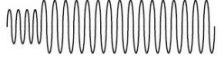
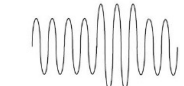
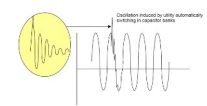
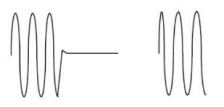
For any questions about Wavecrest please call 732-842-8889.

1. Turn power off to the circuit breaker of the lighting circuit the Wavecrest is connecting too.
2. Remove the load wire from the circuit breaker. This wire connects to the Wavecrest terminal marked RED/OUT.
3. Run a white wire from the Wavecrest terminal marked WHITE/NEU to its own neutral buss connection in the circuit breaker panel.
4. Run a wire from the circuit breaker to the Wavecrest terminal marked BLACK/HOT.
5. Connect the ground wire to ground in the circuit breaker panel.
6. Turn circuit breaker back on to energize the lighting circuit.



Power Quality Events the Wavcrest 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 	Highly destructive to all equipment connected to the circuit
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>