



# IMPROVE YOUR POWER QUALITY & ENERGY EFFICIENCY

MATRIX PURESINE® ACTIVE HARMONIC FILTERS FROM MTE ARE POWERFUL FILTERING SOLUTIONS FOR COORDINATED VARIABLE LOAD POWER FACTOR CORRECTION (PFC), PHASE IMBALANCE CORRECTION, AND HARMONIC MITIGATION.



480V 120A X 8 = 960A



## NO SITE SURVEY REQUIRED.

## EXTREME FLEXIBILITY. ELECTRONIC RELIABILITY.

These are modular, wall mount units that are easy to extend. As you grow and need to add capacity they can grow so you don't have to buy a whole new system. Shunt connection allows for easy maintenance and no disruption of circuit.

Each Control and DC Equalizer Module can manage four Power Modules. Capacity is 480V 35A, 60A, 90A, 120A. Up to eight Control Modules can work in parallel resulting in a Maximum 480V 960A Rating.

You can use the output of readily available Facilities Diagnostics Software with our Sizing Software to help you easily select the number of components needed to handle your system.

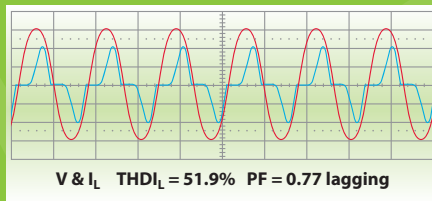
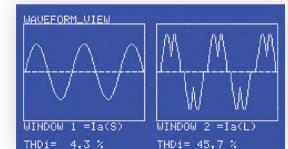
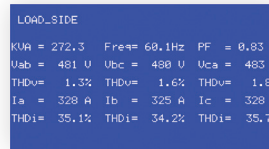
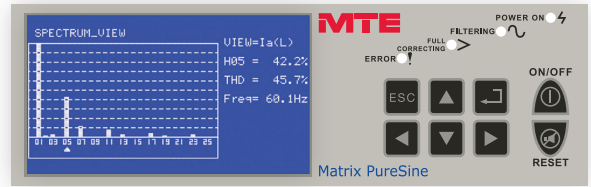
Featuring advanced Digital Signal Processor (DSP) Technology, these Active Filters are programmable in both English and Spanish.

To analyze harmonic current they employ Fourier Transform (FT), and are capable of scope view of waveforms.

Using PureSine Active Harmonic Filters you can realize less than 5% Total Demand Distortion (TDD) while compensating up to the 51st Harmonic and managing up to 12 different Harmonic Signatures simultaneously. Additional advantages include:

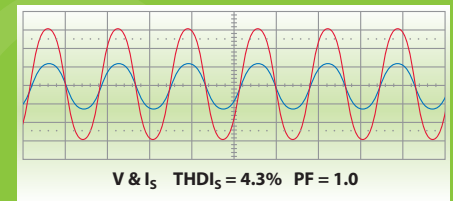
- Eliminating Harmonic Current Down to 5%
- Correcting for Leading or Lagging Power Factor
- Reducing Voltage Waveform Distortion
- Reducing Voltage Drops on Transformers & Cables caused by Harmonics
- Reducing Temperature Rise on Transformers & Cables caused by Harmonics

## USER-FRIENDLY GRAPHICAL INTERFACE



BEFORE COMPENSATION

# GET FINE NOT FINED!



AFTER COMPENSATION

PureSine Active Harmonic Filters can ward off punitive utility fines with PFC approaching or attaining Unity (1).

## SPECIFICATIONS

Operating Temperature	0 to 40°C
Input Voltage	480VAC
Input Frequency	60Hz
Phases/Wires	3 phase/3 wire
Harmonic Correction	2nd to 51st order
Power Factor Correction	0.7 lagging to 0.7 leading
CTs	3 required per system
Response Time	<20 msec
Power Modules per Control Module	4
Control Modules per System	8
Correcting Current 480VAC	35 to 960A
User Interface	LCD
Dry Contacts	5 out, 1 in, 1 EPO
Standard Communication	RS232/USB
Optional Communication	RS485/RS422 or Ethernet
Programmable	User Interface or Communication Software
Max Heat - per Power Module	650W
Max Heat - per Control Module	50W
Form Factor	Wall mount
Agency	EN60146, UL 508, cUL

## TYPICAL APPLICATIONS

- Water & Wastewater Treatment
- Utilities Industry
- Oil & Gas
- Steel, Chemical & Automotive Industries
- Printing, Pulp & Paper Industry
- Office, Building & Data Centers
- Motor Control Centers
- Elevators and HVAC System

*Now you have the power to conquer problems caused by harmonics and reactive power demand —all with fantastic form and modularity.*

Our representative in your area is



N83 W13330 Leon Road,  
Menomonee Falls, WI 53051

P: 800.455.4MTE (4683) F: 262.253.8222

Form MPS-PSP-E June 2011  
Supersedes Form MPS-PSP-E May 2011

MTE Corporation an SL Industries Company

MTECORP.COM