

Harmonic Filters Matrix[®] AP

Adaptive Passive Technology for
superior harmonic mitigation
at varying loads



- **Adapts to varying power loads**
- **Best performance in the industry**
- **Extends the service life of electrical equipment**
- **Generator compatible**
- **Performance guaranty**

The key to success: adapt.

Simply put, our Matrix[®] AP is the most advanced passive filter on the market today. Most traditional filters work fine at 100% power load, but severely underperform at lower loads. Matrix AP is different, because we know almost no one runs at full load all the time. Its patented Adaptive Passive Technology virtually eliminates harmonic distortion by adapting to varying power loads. It delivers better THID performance, increases energy efficiency, and allows you to meet IEEE-519 requirements. Its unique design generates less heat, and is easy to install and maintain. Plus it is generator compatible. With Matrix AP Harmonic Filters, power quality, energy efficiency and reduced downtime are easy to achieve.

Improve power quality and reduce downtime with our patented Adaptive Passive Technology.

Matrix® AP

The best-in-class Matrix® AP Harmonic Filters can be specified for use on the input of your VFD or other 6-pulse rectifier power supply to enable your system to meet the IEEE-519 requirements for harmonic distortion, regardless of power load.

Features our patented Adaptive Passive Technology for superior harmonic mitigation and better THID performance over a wider load range.

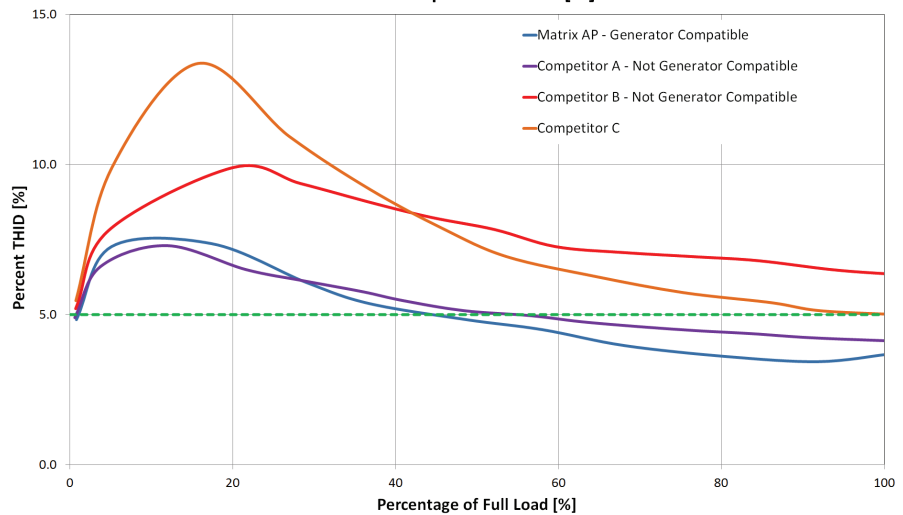
Reduces energy costs by improving system efficiency and reliability.

Extends service life of electrical equipment, especially transformers and motors, due to the virtual elimination of CEMF and the skin effect.

Alleviates system downtime by preventing blown fuses and tripped circuit breakers.



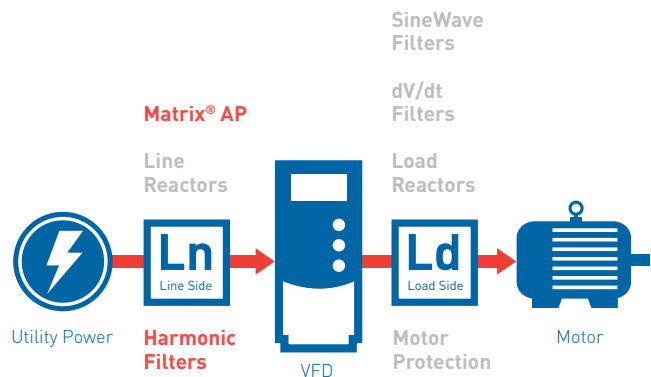
MTE vs. Competition THID [%]



Matrix AP Harmonic Filters can help ensure that your system meets the IEEE-519 requirements for harmonic current.

Performance Specifications:

Input Voltages	480V 60Hz 380V/400V/415V 50Hz 600V 60Hz 690V 50Hz
Total Harmonic Current Distortion	8% Max at 30% Load 5% Max at Full Load
Load	6 pulse rectifier
Input Voltage	Nominal voltage VAC +/- 10% 3 Phase
Frequency	Nominal Frequency +0.75 Hz
Insertion loss at full load	<4%
Efficiency	97% - 99%
Operating Temperature	-40C to +50C Open Panel Filters -40C to +40C-45C Enclosed Filters -40C to +90C Storage
Altitude Without Derating	3,300 feet



MTE
AN SL INDUSTRIES COMPANY

**Power quality.
Solved.**

MTE Corporation

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