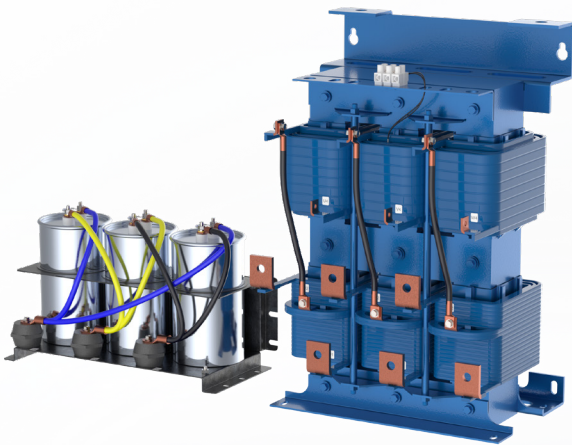


Matrix® AP+

Adaptive Passive Technology for
High THVD Environments



- **The ideal solution for environments with THVD up to 15%**
- **Robust design withstands temperatures up to 55C (131F)**
- **Helps eliminate drive faults due to high THVD**
- **Reliable mitigation even with fluctuating upstream THVD**
- **Integrated THVD overload protection with auto reset**
- **Prevents magnetics-related saturation and instability**

Advanced Protection for High THVD Environments

The Matrix AP+ is built for rugged electrical environments where high THVD threatens uptime, efficiency, and critical equipment.

Unlike traditional filters that perform only at full load, the Matrix AP+ delivers consistent, adaptive harmonic mitigation across real-world operating conditions. Powered by MTE's patented Adaptive Passive Technology, it dynamically adjusts to changing power demands—maintaining performance without added system complexity.

Built to Protect. Built to Last.

More than a harmonic filter, the Matrix AP+ is a self-protecting solution. It safeguards both the system and the equipment it supports from unstable power conditions—reducing faults, improving reliability, and extending equipment life in high-THVD applications.

Even in high-THVD and fluctuating power environments, you can expect the same best-in-class performance from MTE harmonic filters including:

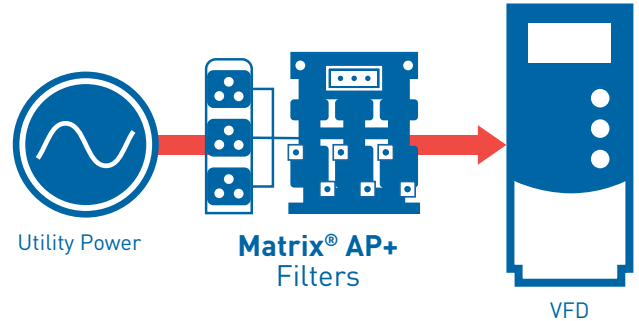
Patented Adaptive Passive Technology - ensures superior harmonic mitigation and THID performance over a wide load range.

Performance guarantee - provides peace of mind that our solutions will meet or exceed performance expectations - every time.

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

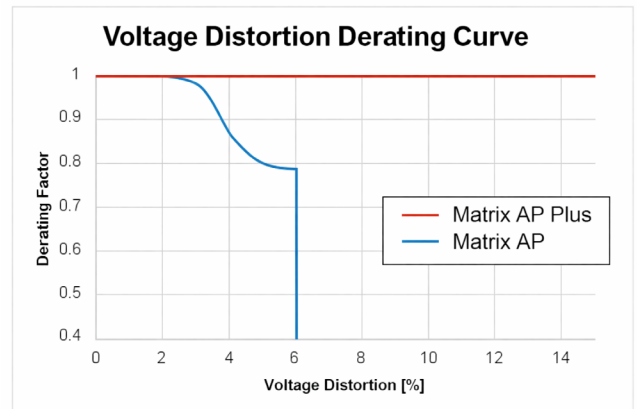
Alleviated system downtime - by preventing blown fuses and tripped circuit breakers.

Industry leading THREE-year warranty - because the best products deserve the best warranty.



Performance Specifications	
Service Load Condition	Load: 6-pulse rectifier only
Input Voltage	480V +/- 10%; 60 Hz; 3-phase
Current Range	208-1200A
Maximum THID	THVD%: 5% at 30% load, +8% at max load
Maximum Ambient Temperature	-40C to +55C open panel filter -40C to +55C enclosed filter -40C to +90C storage
Insertion Loss @ Full Load	<4%
Efficiency	97% - 99%
Altitude Without Derating	3,300 feet above sea level
Relative Humidity	0% to 95% non-condensing
Current Rating	150% for 1 minute duration
THVD Conditions	Up to 15% THVD

Matrix® AP+ Extends Performance Beyond Matrix® AP in High-THVD Conditions



Matrix® AP+ operates at full capacity across increasing THVD levels, while Matrix AP experiences progressive derating as voltage distortion rises, reducing usable capacity.

Additional ratings available upon request. Final product specifications subject to change at anytime.



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