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Subject: GridHawk® Filters
Application: Input Harmonic Filters
Case Study: GridHawk® Advantages

GRIDHAWK® SERIES ADVANTAGES

Overview:

CTM's GridHawk series passive harmonic filters boast several key advantages over market standard harmonic filters. These advantages include:

- 1) **High reliability poly-film capacitors**
- 2) **Grid voltage distortion survivability**
- 3) **Contactor enclosures**
- 4) **Direct liquid cooled options**
- 5) **A 5 year capacitor warranty**



GRIDHAWK® FIELD DATA

Figures 1 and 2 compare voltage (blue) to current (orange) at 22.5% THVD. Installing a GridHawk XD eliminates the current spikes and patterns the current to roughly follow the voltage. In regions with a high amount of voltage distortion, a saturation of GridHawks will correct the voltage distortion for the entire area, producing a cleaner grid.

480 V / 22.5% THVD
 Without GridHawk XD

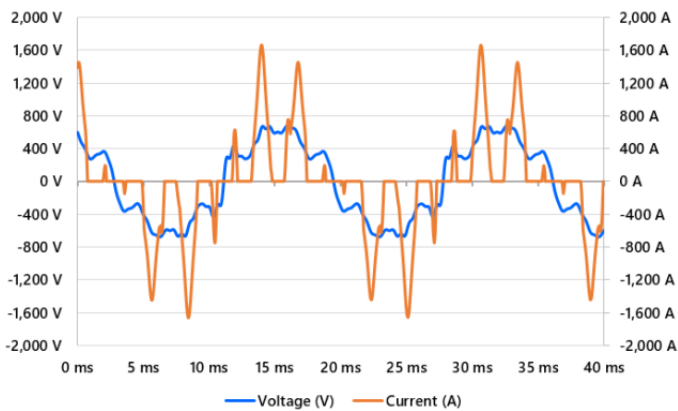


Figure 1. Voltage (blue) and current (orange) at 22.5% THVD

480 V / 22.5% THVD
 With GridHawk XD

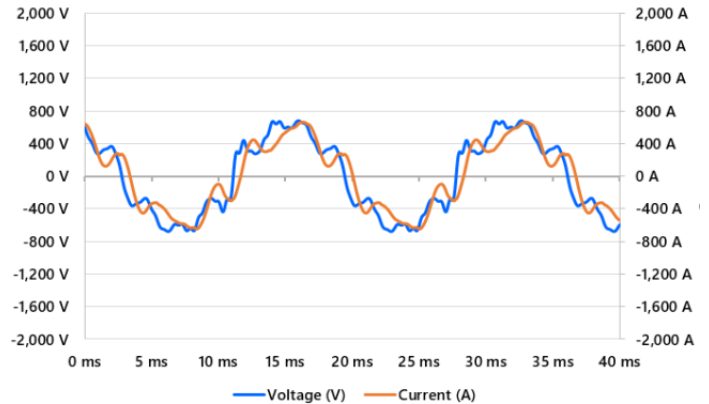


Figure 2. Voltage (blue) and current (orange) at 22.5% THVD With GridHawk XD