

FAQ - What is included with the HGP Standard Package Option?

The Standard Package includes everything necessary for an application to meet IEEE 519 standards. From the highest quality harmonic grade capacitors on the market to the extraordinary reactors, this filter will meet the majority of application requirements found today. This cost effective product is available as either an open panel version or in a UL Type 1 enclosure. The open panel is perfect for inclusion in a MCC section or easy installation into industry standard enclosures. The UL Type 1 enclosed units maintain the same vertical profile as the open panel design. This design is perfect for applications where floor space is at a premium.

FAQ - What does the Power Monitor Package Option, "XM", add to the standard HGP filter?

The "XM" Option is essentially adding to the HGP standard product the features found on the full feature HarmonicGuard filter. This includes the contactor, control circuit power transformer, control circuit fusing, and the monitor board with its alarm annunciation and filter control functions. The HG2 monitor board and the full features of the earlier series HarmonicGuard have become a standard for many filter users and TCI wants to ensure this mainstay product option is available on the HGP.

FAQ - When should I consider buying the "XM" Option over the standard HGP filter?

The HGP standard product is a high performance filter that will perform the function of mitigating excessive harmonics related to the drive system. The "XM" Option goes beyond that to allow additional control, alarm, and monitor features. The "XM" Option would be the desired version to specify if the customer is looking for alarm features should a filter fault occur or be able to turn off the filter circuit without shutting down the drive.

FAQ - Who should consider buying the HGP CP Option filter?

The "CP" version of the HGP is designed and developed for the systems integrator and experienced filter panel designer and builder. By buying the CP Option, customers can build the high performance harmonic filter into their existing packages. While fundamental schematic diagrams and layout documents are provided should the customer opt to use TCI's proven schematic, the use of these filter components is intended for the experienced, highly technical panel builders and system integrators. The customer is responsible for all phases of design and fabrication of the filter. Included in the package are the series line reactor, the tuning reactor, the capacitors, and the cap mounting brackets.

FAQ - What is included with the HGP Power Monitor Option?

The Power Monitor package includes contactors and filter monitoring equipment. For units rated at 60 horsepower and below, the XM package utilizes indicator lights for filter operation and fuse failure. From 75 HP through 350 HP, the XM package uses the HG2™ Protection Monitor/Harmonic-Power Factor meter. The HG2™ Monitor Board displays operating information such as ITHD, VTHD, total filter amps, true power factor, and a series of fault and protection codes including over-current, over-voltage, and phase imbalance. It is also a programmable safety monitor, capable of bringing the filter off-line in a fault condition, or when the drive goes into a fault condition. For those applications that require the removal of capacitance for the start-up of stand-by generators, the contactors can remove the harmonic duty capacitors. Above 400 HP, the XM package includes a monitor board which has indicator lights to advise the mode of operation and when a fault should occur.

FAQ - Is the physical size of the Standard HGP and Power Monitor Package Option (XM) different?

The physical size of the "XM" Option is larger than the standard HGP because of the features added to the product. In both the open style and enclosed version, the filters will be larger when the "XM" Option is specified.

[FAQ - What exactly does the HGP Component Package \(CP\) Option include?](#)

This package consists of the series filter reactor, trap tuning reactor, capacitors, and cap brackets. A fundamental manual, along with a wiring diagram and layout drawing, is provided should a customer choose this package option. TCI recommends that only experienced drive integrators take advantage of this option.

[FAQ - How can the dimensions for the HGP open panel design be the same as the enclosed version?](#)

The HGP utilizes an integral enclosure system such that the back panel of the filter is actually the back side of the enclosure when an enclosed version is selected. Please see the outline drawings on the TCI website for a closer look at this configuration.

[FAQ - What do I do if I need a NEMA 4 or NEMA 12 enclosure for the HGP?](#)

These enclosures are presently not available from TCI as a standard product offering. A qualified customer can purchase the "CP" Option that will allow them to build their own filter using TCI components or a special product may be available from TCI. Contact TCI Technical Support for discussion on the enclosure options available and methods to handle special applications.

[FAQ - Where can I find the field terminal size information?](#)

Connection information is readily available on the outline drawings provided by TCI.