

PASSIVE HARMONIC FILTER



The HGP (HarmonicGuard Passive) filter is a drive applied passive harmonic filter that limits current distortion to less than 5% at low loads. The HGP with PQconnect provides Bluetooth connectivity to monitor power quality and control the filter.

High quality components and a robust design allow this passive filter to deliver best in class performance under the harshest conditions and in the most challenging applications. The HGP filter is suitable for all industry applications. HGP with PQconnect is the only passive filter with remote connectivity.

Benefits of the HGP Filter

- Limits total harmonic current distortion down to 5% over the widest load range in the industry
- Ensures IEEE-519 2022 compliance with true 100ka SCCR rating
- Intelligent control and monitoring available with PQconnect
- Communications and data analytics available via Modbus RTU and EtherNet/IP
- Generator compatibility
- High quality components
- Made in the USA

Typical Applications:

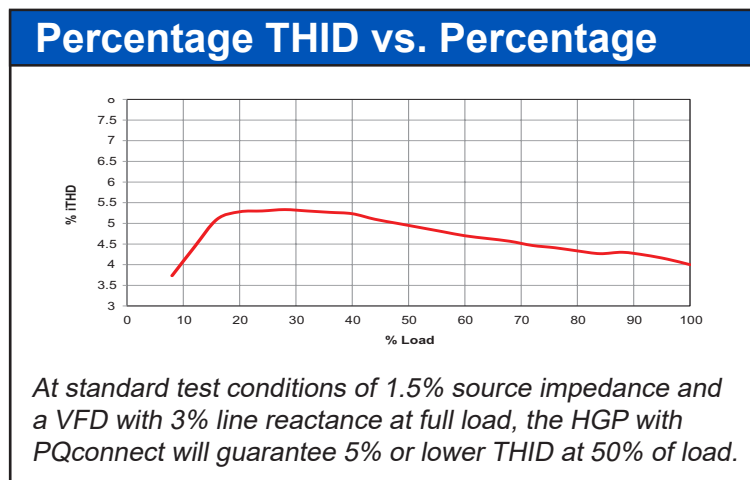
- HVAC Compressors and Blowers
- Water/Wastewater Pump Systems
- Oil & Gas Applications
- HVAC Chiller Systems



Technical Specifications	
Voltage	60Hz: 208, 240, 480, 600 VAC 50 Hz: 380 - 415 VAC
Frequency	50 & 60 Hz
Power Rating	208 & 240 VAC: 5 - 1000 HP 380 - 415 VAC: 4 - 1000 KW 480 & 600 VAC: 5 - 1250 HP
THID	Less than 5% at full load
SCCR (Short Circuit Current Rating)	100 kA
Immunity from Voltage Distortion	Less than 5% THID at full load with THVD as high as 5%*
Efficiency	Greater than 99%
Overload Capability	200% of current rating for 3 minutes
Communication Options	Modbus RTU over RS485 & EtherNet/IP
Environmental Conditions	
Operating Temperature	Open: 50°C (122°F), Enclosed: 40°C (104°F)
Storage Temperature	60°C (140°F)
Elevation	Up to 2,000m without derating. Consult factory for higher elevations.
Humidity	95% non-condensing
Cooling Method	Natural or Forced Air Convection
Reference Technical Standards	
Enclosure Options	Open Chassis, UL Type 1, UL Type 3R, UL Type 12
Agency Approvals or Certifications	cULus Listed, RoHS, and FCC

*When configured for High Background Voltage Distortion. See IOM for guidelines for distortion greater than 5%.

Part Numbering System	
Series	HG P 0150 A W 1 C 2 0 0 0
Model	P = Standard L = Low Capacitance
Horse Power	0150
Voltage Rating	A = 480 V B = 240 V (HGP only) C = 600 V D = 208 V (HGP only) L = 380 - 415 V (HGP only)
Frequency	W = 60 Hz X = 50Hz (HGP only)
Filter Enclosure	0 = Open 1 = Type 1 2 = Type 12 (HGP only) 3 = Type 3R
Option	C = Contactor S = No Contactor
Option	0 = No Connectivity 1 = PQconnect w/ Modbus RTU over RS485 2 = PQconnect w/ EtherNet/IP
Option	0 = No Option F = Floor Stand (125 HP and below for Type 3R)
Option	0 = Standard Voltage Distortion 1 = High Voltage Distortion (HGP only)
Option	0 = No Option H = Heater (Only in Type 3R) V = Vibration Pads (HGP only) P = Oil Field Duty T = Thermal Switches A = Thermal Switches and Heater (HGL only)



Performance Guarantee - Select and install the appropriate HarmonicGuard Passive Harmonic Filter in a variable torque, variable frequency AC drive application, within our published technical specifications, and we guarantee that the input current distortion will be less than or equal to 5% THID for standard HGP Series filters at full load, and less than 8% at 30% load. If a properly sized and installed filter fails to meet its specified THID level, TCI will provide material for necessary modifications or replacement filter at no charge. See product manual for further clarifications.