

# DATA SHEET

## 30 & 50A HGA



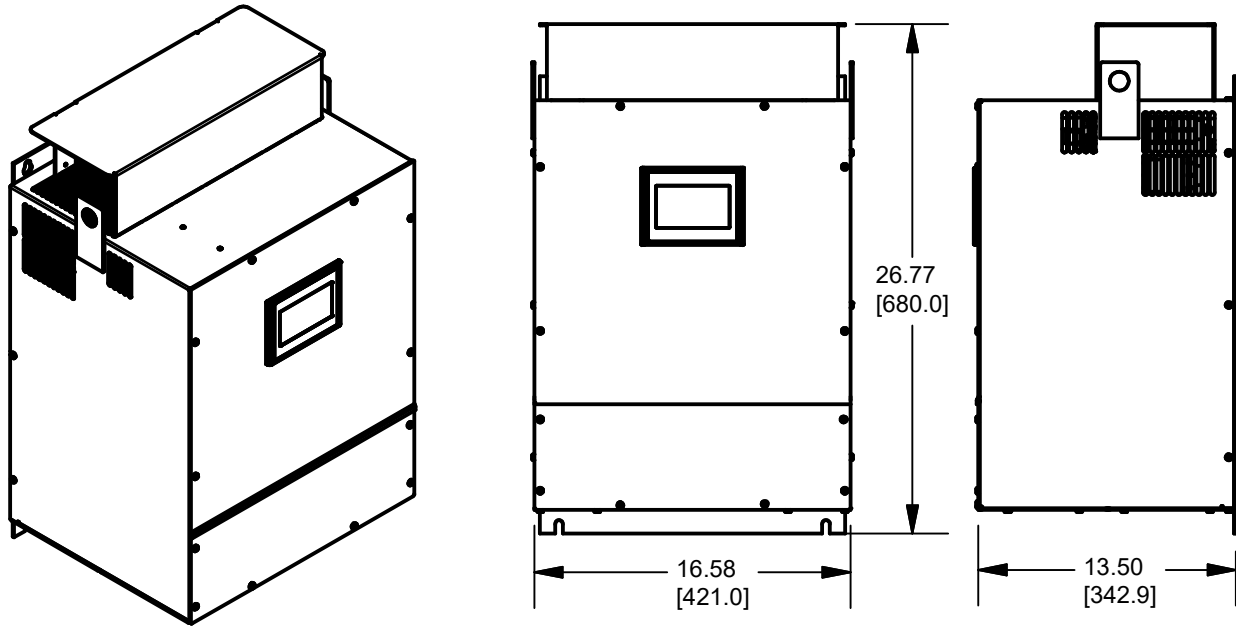
- Ensures IEEE-519 Compliance
- Mitigates up to the 51<sup>st</sup> harmonic with THID% setpoints per harmonic
- 208 - 480 V systems
- Small size allows for integration where it is convenient for you

## Technical Specifications

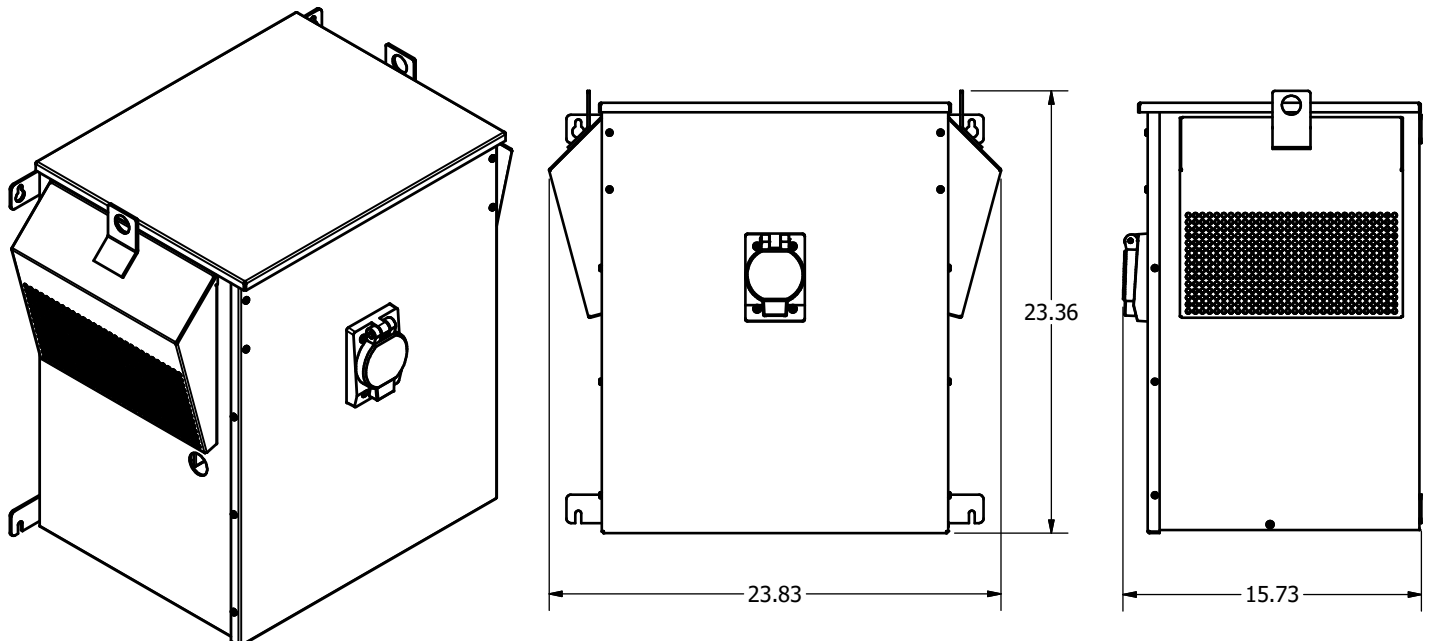
Compensation Capacity (Parallel for Higher Capacity)	208 - 480 V: 30A & 50A; 3-phase, 60 Hz
Harmonic Cancellation Spectrum	To the 51 <sup>st</sup> harmonic - auto-selecting
Response Time	Less than 8 ms to step load changes
Power Factor Correction	Up to 0.98 lagging
RMS Current Attenuation	Less than 10:1
Parallel Configuration	Up to two active filters can be connected in parallel
Display	High quality touchscreen HMI with LED backlight
Communications	Modbus RTU over RS485, Modbus TCP/IP, EtherNet/IP <sup>®</sup> , BACnet;
Over Current Protection	200 kAIC fuse block
<b>Environmental Conditions</b>	
Operating Temperature	0°C (32°F) to 50°C (122°F) Derating above 50°C
Relative Humidity	95%, non-condensing
Operating Altitude	Up to 1000m (3,300 ft) without derating Up to 3000m (9,900 ft) with derating
Storage Temperature	Open Chassis & UL Type 1: -20°C (-4°F) to 60°C (140°F)
	UL Type 3R: -40°C (-40°F) to 60°C (140°F)
Enclosure Options	Open Chassis, UL Type 1, UL Type 3R
<b>Reference Technical Standards</b>	
Agency Approvals	cULus Listed
HMI Languages	English, French, Spanish
Surge Protection	ANSI C62.42

# 30 & 50A HGA

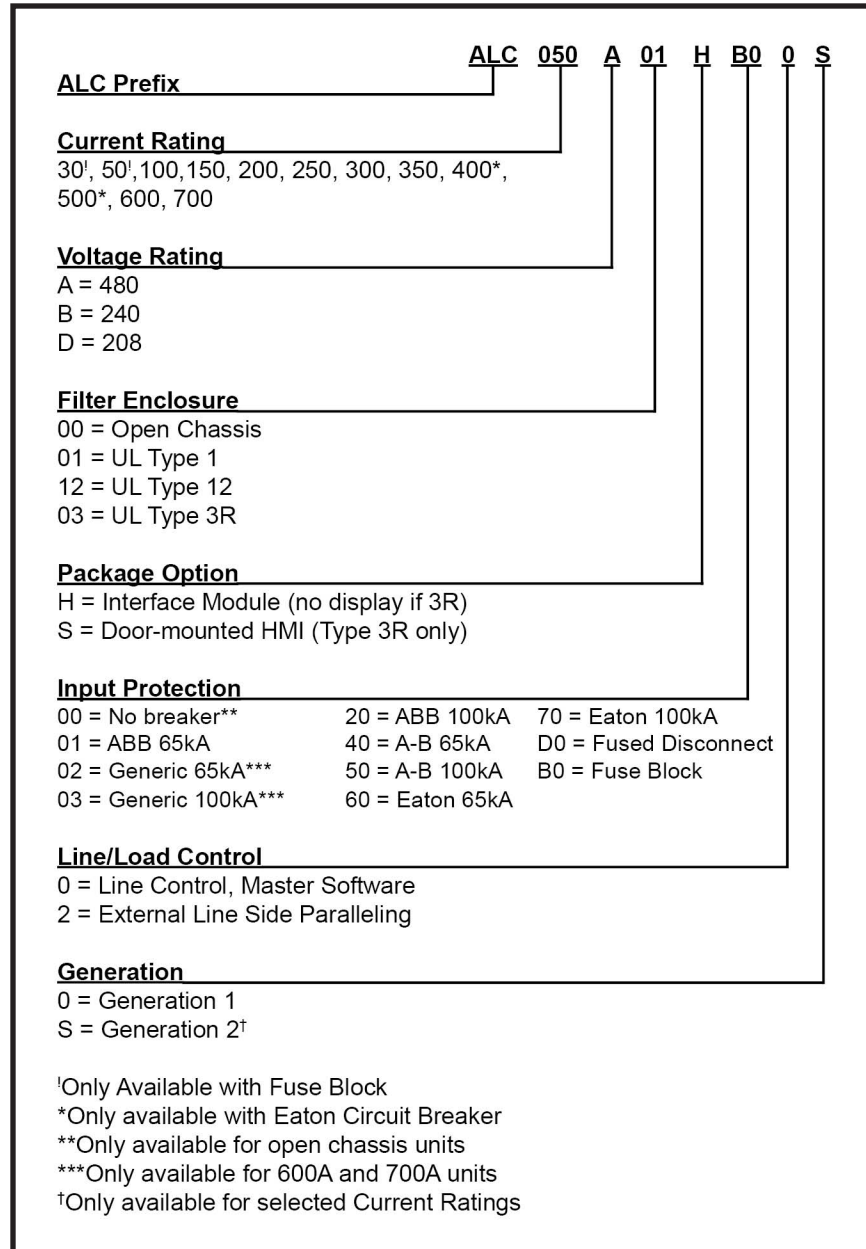
## HGA 30 & 50 A | UL Type 1 Enclosure In. (mm.)



## HGA 30 & 50 A | UL Type 3R Enclosure In. (mm.)



## HGA Product Line Part Number Structure



## 30 & 50A HGA

The HarmonicGuard® Active (HGA) filter is an elite system-applied harmonic filter that minimizes harmonics to less than 5% total demand distortion (TDD) at the point of common coupling. The HGA monitors the load current and reacts to changes immediately. By injecting a counter-current, the active filter cancels out harmonics and synchronizes the current and voltage waveforms while improving power factor to near unity.

One HGA filter can handle multiple non-linear, harmonic-generating loads. The HGA meets the demanding requirements of IEEE-519 2022. Offering top of the line performance and mitigation, the HGA provides a lower cost and a smaller footprint than a comparable 18-pulse VFD or active front end drive and is available in 30A - 700A.

