

MIRUS offers a complete line of highly efficient Harmonic Mitigating Products to address the many problems associated with harmonic generating non-linear loads in applications such as Oil & Gas (drilling & pumping), Water/Waste Water, Chillers & other HVAC equipment, Marine Vessels, Data Centers (servers & cooling equipment), Telecommunications and Broadcasting Facilities.

Harmonic Filters

PRODUCTS

APPLICATIONS



LINEATOR™ AUHF
3-Phase Passive Harmonic Mitigation Filters for line side harmonics from VFD /ASD non-linear loads

Reduces harmonics generated by VFD to meet the limits of IEEE Std 519, EN 50160, IEC 61000-3-12, G5/4, and GB/T 15459. Exceeds 18-pulse performance, in a smaller footprint, at lower cost and without sacrificing energy efficiency. Free 'SOLV' computer simulation software simplifies harmonic compliance analysis.

AUHF-HP High Performance (<5% ITHD). Ideal for meeting specifications where current harmonic must meet less than 5%.

AUHF-HP2 High Performance (<5% ITHD). Designed specifically for EC Fans and other high efficiency, integrated permanent magnet motor technology.

AUHF-ED For extreme environments, such as excessive background voltage distortion (up to 12% VTHD), high ambient (up to 55°C) or high elevation (above 3000 ft).

AUHF-MOS Marine Duty and Offshore Specific Lineator. Designed for harsh environments and addresses all marine certifying body requirements.

AUHF-L Liquid Cooled Lineator Harmonic filter designed for smaller footprint and optimized for use with liquid cooled drives/equipment.

ATL All-in-one Autotransformer and Harmonic filter. For applications when the VFD voltage rating is different from the service voltage. Combines the proven harmonic mitigating performance of the Lineator™ AUHF with step-down or step-up voltage transformation.

1Q3 1-ph to quasi 3-ph harmonic filter. For 3-ph VFD's and motors where only 1-ph power is available. Used to lower current demand distortion and reduce the need for VFD derating in remote locations.



INVERSINE™ AUSF
Advanced Universal Sine-wave Filter

Provides sinewave output voltage and current for drive applications when PWM Inverters are used. Used to resolve problems such as motor and winding failure, motor noise, cable insulation degradation, premature VFD failure and reflected wave phenomenon and high EMI/RFI. Optional common-mode filter reduces bearing failures due to common-mode currents.

Power Inductors / Reactors

PRODUCTS

APPLICATIONS



GENLINK™
Dissimilar Pitch Neutral Limiter (DPNL) uniquely wound multiple coil reactor

Reduces circulating current in the common neutral and/or ground wires of paralleled generators with dissimilar pitches or generators paralleled with the utility. Blocks circulating current without reducing system fault level.

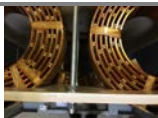


ACR, DCC
Iron Core Power Inductors

Iron Core AC Power Inductors and DC Chokes for large LV VFD/ASD applications. Standard designs start at 800A to 3200A at 480V and 690V

ACR-L, DCC-L
Liquid Cooled Iron Core Power Inductors




Iron Core AC Power Inductors and DC Chokes with water connection for liquid cooled systems.




ACRA
Air Core Inductors

AC Inductors built with an air core utilized to limit available short circuit current. Typically used when electrical upgrades raise the system fault level and current limiting is required to prevent having to replace existing equipment.


Transformers

PRODUCTS	APPLICATIONS
	<p>ULLTRA™ Ultra Low Loss TRAnSformer that exceeds efficiency requirements of DOE 2016</p> <p>Ideal for government, municipal, educational and institutional facilities where LEED certification is required to meet 'High Performance' and 'Green' building designations or anywhere lower energy costs are desired.</p>
	<p>ULLTRA™ H1E, H2E Harmonic Mitigating Isolation Transformers</p> <p>Harmonic mitigating, high efficiency, phase shifting transformer with low zero sequence impedance windings designed to cancel harmonics to replace standard or K-rated transformers to enhance power quality and save energy. Exceeds DOE 2016 requirements.</p>
	<p>ELIMINATOR™ SERIES:</p> <p>Autotransformer configurations used in commercial and residential buildings for removal of 3rd, 5th, 7th, 9th, 11th, 13th, 15th, etc. harmonics. NCE and CNCE devices are easily combined for a complete solution.</p> <p>NCE™ Neutral Current Eliminator. Parallel connected zero sequence harmonic filter/autotransformer.</p> <p>For 3-phase, 4-wire systems where neutral current is high. Connected in parallel near the harmonic generating non-linear loads (usually connected at the distribution panel), to provide an alternate path for 3rd, 9th, & 15th current harmonics (triplens).</p> <p>CNCE™ Combined Neutral Current Eliminator. Series connected low zero sequence autotransformer</p> <p>Phase shifting autotransformer with low zero sequence impedance at its output. Connected in series on a 3-phase, 4-wire service with non-linear loads, to provide an alternate path for the triplen harmonics and phase shift 5th and 7th current harmonics to cancel with those 5th and 7th harmonics from other loads on the distribution system.</p> <p>5-7,5-13,11-13 3-phase, 3-wire auto-transformers with 30°, 15° or 20° phase shift between input and output</p> <p>Allows for the creation of quasi 12, 18 or 24-Pulse systems where multiple 3-phase rectifiers, such as variable frequency drives, are in use.</p>

Power Distribution Units

PRODUCTS	APPLICATIONS
	<p>ONICS™ SERIES:</p> <p>HMPC Harmonic Mitigating Power Center. Power Distribution Units (PDU) with harmonic mitigation</p> <p>Power distribution unit incorporating Mirus' patented and proven ultra high efficiency, Harmonic Mitigation Transformer (HMT) technology. Ideal for the raised floor environment.</p> <p>HMRP Harmonic Mitigating Remote Panelboard. Up to 4 Circuit Breaker panelboards with built-in passive harmonic filtering</p> <p>Eliminates the need for K-rated transformers and double ampacity neutrals. Ideal for broadcasting, telecommunications, data centers, call centers and all office environments with personal computers. Easily installed in either raised or solid floor applications. Ideal for removal of harmonics in 240/415V applications.</p>

Power Metering and Alarming Monitor

PRODUCTS	APPLICATIONS
	<p>INSIGHT™ Power Meter and Alarm Monitor.</p> <p>Designed to continuously monitor Mirus products such as the Lineator™ Harmonic Filter, Onics™ Power Distribution units, and any Ulltra™ or Harmony™ transformer. Also available for individual OEM/Integrator application.</p>