Synergy Energy

Product Selection Guide

Electronic Load Rated Products

Harmonic Mitigating

CTT **C**urrent **T**reating **T**ransformer	Three-phase Four-wire harmonic mitigating and Neutral Current reducing device, CTT is designed for parallel installation in the electrical system and it traps the third order harmonics by creating a low impedance pathway.
VFDS **V**ariable **F**requency **D**rive **S**olution	High Efficiency device designed to mitigate 5th and 7th harmonics created by nonlinear load such as Variable Frequency Drives. It is an efficient, reliable, and long lasting electromagnetic based device. Reduction of the 5th and 7th harmonics provides cleaner voltage to the other equipment in the facility, and reduces equipment malfunction and failure.
HTT2 **H**armonic **T**reating **T**ransformer **2** Two Outputs	Highly advanced dual output transformer with extraordinary harmonic mitigating capabilities. HTT2 mitigates all the 3rd order harmonics together with 5th and 7th ones in its windings. Phase shifting technology combined with low zero sequence impedance and balanced output impedances enables HTT2 to efficiently and reliably mitigate the harmonics.
HPS **H**armonic **P**remium **S**olution	Ultra High efficiency harmonic mitigating transformer specifically designed to deliver enhanced power quality by treating the harmonics in the electrical system that are generated by single phase non-linear loads. HPS treats 5th, 7th, 11th, and 13th harmonics at the system level.
HTT **H**armonic **T**reating **T**ransformer	A three-phase isolation transformer capable of handling loads up to K30 without derating. HTT mitigates 3rd, 9th and all other third order harmonics in its secondary windings through Flux Cancellation technology and 5th, 7th, 11th and 13th harmonics through phase shifting at the system level.
HS **H**armonic **S**olution	With small footprint and a great replacement for Delta-Wye transformers, one of the most economical solutions for harmonic problems. HS is designed to handle K-20 load profile and is capable of mitigating the 3rd, 5th, 7th, 9th and 15th harmonics at the system level.

High Efficiency Products (Direct Replacement for Distribution Transformer)

HET.K **H**igh **E**fficiency **T**ransformer **K** Rated	Three phase high efficiency isolation transformers derated to the K-rating levels specified by UL. Typical installation of HET.K would be where non-linear loads are present. The required K-rating increases with increased amounts of Total Harmonic Distortion (THD) in the electrical system.
HET **H**igh **E**fficiency **T**ransformer	As a replacement for standard Delta-Wye transformer, the Ultra High Efficiency HET is to reduce the operating cost of the facilities. It is the ideal transformer for supplying power to panels or equipment with high linear load concentration.
HET.L **H**igh **E**fficiency **T**ransformer **L** Low Cost	A low cost solution for raising the overall efficiency of a facility, HET.L transformers delivers quiet and efficient power with short return on investment.
HEST **H**igh **E**fficiency **S**ingle-phase **T**ransformer	While providing efficient power to single-phase loads, HEST improves the overall efficiency of the facility and returns the investment in a short period. With their low maximum temperature rise, HEST products run cooler than a standard single-phase transformer under similar load and condition.

Common Features of Harmonic Mitigating & High Efficiency Products: Copper wound, Internally brazed, Vibration damper between core clamping brackets and enclosure, Insulation class 220 °C, Natural Convection Cooling with Air (ANN), NEMA 3R Enclosure, 3rd party Intertek Efficiency Verification, and SmartSkid®.

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